

**Operating Instructions** 



audio/video multi-channel receiver

# IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION:

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1\_A1\_En

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

#### **IMPORTANT: THE MOULDED PLUG**

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  $\overleftarrow{\mathsf{APA}}$  or the BSI mark  $\overleftarrow{\nabla}$  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer.

# If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

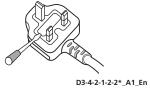
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral Brown : Live As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter  ${\bf N}$  or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter  ${\bf L}$  or coloured RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.



#### WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3\_A1\_En

#### WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-4\*\_A1\_En

#### WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. D3-4-2-1-7a\_A1\_En

#### **Operating Environment**

Operating environment temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c\*\_A1\_En

#### Information for users on collection and disposal of old equipment and used batteries



(Symbol examples) for batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

#### These symbols are only valid in the European Union.

#### For countries outside the European Union:

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

K058a\_A1\_En

#### **VENTILATION CAUTION**

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 20 cm at top, 10 cm at rear, and 20 cm at each side).

#### WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.



If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal. The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-1a\_A1\_En

#### CAUTION

The **OSTANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a\*\_A1\_En

K041 A1 En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

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# Flow of settings on the receiver

The unit is a full-fledged AV receiver equipped with an abundance of functions and terminals. It can be used easily after following the procedure below to make the connections and settings.

The colors of the steps indicate the following:

#### **Required setting item**

#### Setting to be made as necessary

#### 1 Before you start

- Checking what's in the box (page 9)
- Loading the batteries (page 9)
- 2 Determining the speakers' application (page 21)

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- 9.1 channel surround system (Front height)
- 9.1 channel surround system (Front wide)
- 7.1 channel surround system & Speaker B connection
- 5.1 channel surround system & Front Bi-amping connection (High quality surround)
- 5.1 channel surround system & ZONE 2 connection (Multi Zone) ∎

#### 3 Connecting the speakers

- Placing the speakers (page 22)
- Connecting the speakers (page 23)
- Installing your speaker system (page 24)
- Bi-amping your speakers (page 25)

#### 4 Connecting the components

- About the audio connection (page 26)
- About the video converter (page 26)
- Connecting your TV and playback components (page 28)

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- Connecting AM/FM antennas (page 35)
- Plugging in the receiver (page 41)

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 Automatically conducting optimum sound tuning (Full Auto MCACC) (page 42) ▰

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- Basic playback (page 46)
- 10 Switching the HDMI output (page 77)

#### 11 Adjusting the sound and picture quality as desired

- Using the various listening modes (page 56)
- Better sound using Phase Control (page 59)
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- Measuring the all EQ type (SYMMETRY/ALL CH) ADJ/FRONT ALIGN) (page 100)
- Changing the channel level while listening (*Tip* on page 112)
- Switching on/off the Acoustic Calibration EQ, Sound retriever or Dialog Enhancement (page 72)
- Setting the PQLS function (page 71)
- Setting the Audio options (Tone, Loudness or Sound delay, etc.) (page 72)
- Setting the Video options (page 74)

#### 12 Other optional adjustments and settings

- Control with HDMI function (page 68)
- The Advanced MCACC menu (page 100)
- The System Setup and Other Setup menus (page 110)

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#### 13 Making maximum use of the remote control SC-LX83:

- Operating multiple receivers (page 80)
- Setting the remote to control other components (page 80)
- Using the RF communications function (page 87) SC-LX73:
- Operating multiple receivers (page 92)
- Setting the remote to control other components (page 93)

# Chapter 1: Before you start

### **Our philosophy**

Pioneer is dedicated to making your home theater listening experience as close as possible to the vision of the moviemakers and mastering engineer when they created the original soundtrack. We do this by focusing on three important steps:

#### 1 Achieving the highest possible sound quality

# 2 Allowing for customized acoustic calibration according to any listening area

#### 3 Fine-tuning the receiver with the help of worldclass studio engineers<sup>\*</sup>

\* With the cooperation of AIR Studios, this receiver has been designated AIR Studios Monitor:



### **Features**

#### • Direct Energy HD Amplifier

Through a collaboration, Pioneer and ICEpower have jointly development a unique class D amplifier called a "Direct Energy HD (High Fidelity Class D) amplifier". This new generation reference amplifier offers outstanding performance with high sound quality and reproduces the latest in multi-channel digital contents.

#### • HDMI (Ver.1.4 with 3D, Audio Return Channel)

A compatible component is required to use the above function.

#### • Remote operation on an iPhone/iPod touch

Operation via LAN is possible from an iPhone or iPod touch by downloading a Pioneer original application (iControlAV) from the iTunes Store.

#### iPhone/iPod playback

Your iPhone or iPod can be connected to the receiver's USB terminal to play the music/video files on the iPhone/ iPod.

#### PQLS<sup>1</sup>

Jitterless high quality playback is possible by connecting a PQLS-compatible player with HDMI connections.

#### • Dolby Pro Logic IIz compatible

Adding a pair of speakers above the front left and right speakers adds expressiveness in the vertical direction to the previous horizontally-oriented sound field. The height channel strengthens the sound field's sense of threedimensionality and air, producing presence and expansion.

#### • Internet Radio

By connecting this receiver to the network via the LAN terminal, you can listen to Internet radio stations.

#### HOME MEDIA GALLERY<sup>2</sup>

This receiver can play back contents stored on your computer when your computer is connected to the LAN terminal of this receiver.

#### • Bluetooth compatible

Using the *Bluetooth* ADAPTER (AS-BT100) lets you enjoy music files on an iPhone or other *Bluetooth* wireless technology device wirelessly.

#### • Sound Retriever and Sound Retriever Air

The Sound Retriever feature employs DSP technology to restore sound pressure and smooth jagged artifacts left over after compression. Sound Retriever Air compensates for reduced sound quality due to compression when sending *Bluetooth* signals.

#### Easy setup using Advanced MCACC

The Auto MCACC Setup provides a quick but accurate surround sound setup, which includes the advanced features of Professional Acoustic Calibration EQ.

#### • Web control

The receiver can be operated using a browser from a computer connected on the same LAN as the receiver.

#### RF two-way communications function

Using the CU-RF100<sup>3</sup>, the information shown of the receiver's display can be displayed on the remote control in your hands and you can operate the remote control without worrying about obstacles or the direction in which the remote control is pointing.

#### 🔗 Note

<sup>1</sup> The PQLS functions supported for the different models are as shown below. *SC-LX83*: PQLS Bit-stream/PQLS Multi Surround/PQLS 2ch Audio. *SC-LX73*: PQLS Multi Surround/PQLS 2ch Audio.

<sup>2</sup> Home Media Gallery is only supported on the SC-LX83.

<sup>3</sup> The CU-RF100 is included with the SC-LX83, sold separately with the SC-LX73.

### Checking what's in the box

Please check that you've received the following supplied accessories:

In case of SC-LX83

- Setup microphone (cable: 5 m)
- Omni-directional remote control (CU-RF100)
- RF adapter
- IR blaster cable x2
- AA/LR6 dry cell batteries x4
- AM loop antenna
- FM wire antenna
- iPod cable
- Bluetooth ADAPTER (AS-BT100)
- Power cord
- Warranty card
- Quick start guide
- These operating instructions (CD-ROM)

In case of SC-LX73

- Setup microphone (cable: 5 m)
- Remote control unit
- AAA size IEC R03 dry cell batteries (to confirm system operation) x2
- AM loop antenna
- FM wire antenna
- iPod cable
- Bluetooth ADAPTER (AS-BT100)
- Power cord
- Warranty card
- Quick start guide
- These operating instructions (CD-ROM)

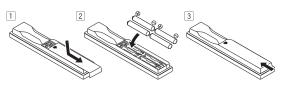
#### Installing the receiver

- When installing this unit, make sure to put it on a level and stable surface.
- Don't install it on the following places:
- on a color TV (the screen may distort)
- $-\operatorname{near} a$  cassette deck (or close to a device that gives off
- a magnetic field). This may interfere with the sound.
- in direct sunlight
- in damp or wet areas
- in extremely hot or cold areas
- in places where there is vibration or other movement
- in places that are very dusty
- in places that have hot fumes or oils (such as a kitchen)

• Do not touch this receiver's bottom panel while the power is on or just after it is turned off. The bottom panel becomes hot when the power is on (or right after it is turned off) and could cause burns.

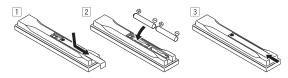
### Loading the batteries

In case of SC-LX83



#### In case of SC-LX73

The batteries included with the unit are to check initial operations; they may not last over a long period. We recommend using alkaline batteries that have a longer life.



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Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:

- Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- WARNING

Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

### **Operating range of remote control unit**

The remote control may not work properly if:

- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.

# 30° 7 m

# 🚺 Tip

By connecting an RF adapter to the RS-232C and CU-RF100 terminals (*SC-LX83*) / EXTENSION terminals (*SC-LX73*), the CU-RF100 omni-directional remote control can be used for RF two-way communications, with the receiver.<sup>1</sup> With RF two-way communications, the information of the receiver's display can be displayed on the remote control in your hands and the remote control can be operated without worrying about obstacles or the direction in which the remote control is pointing.<sup>2</sup> For details, see *Flow for operating the receiver with RF two-way communications (SC-LX83 only)* below.

# Flow for operating the receiver with RF two-way communications

#### (SC-LX83 only)

This remote control unit is set for operations using infrared signals upon shipment from the factory. To set it for RF operations, take the steps below.

#### 1 Connecting the RF adapter to the RS-232C and CU-RF100 terminals.

- Connecting the RF adapter (SC-LX83 only) on page 20
- Setting the 'RF Remote Setup' to 'ON'. *RF Remote Setup* (SC-LX83 only) on page 116
- 3 Pairing the RF adapter and remote control.
- Pairing the RF adapter and remote control on page 88

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- 4 Setting 'RECEIVER MAIN' to 'RF MODE' for the remote control unit's 'IR/RF SELECT' setting.
  - Operating this receiver by RF communications on page 88

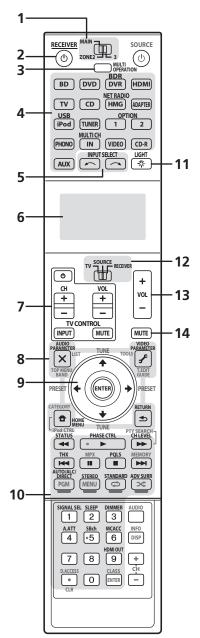
#### 🔗 Note

- The RF adapter and CU-RF100 omni-directional remote control are included with the SC-LX83, sold separately with the SC-LX73.
- 2 The maximum line-of-sight distance for RF two-way communications is about 10 meters. This line-of-sight communications distance is a rough indication, and may differ according to the surrounding environment.

# Chapter 2: Controls and displays

# Remote control (In case of SC-LX83)

This section explains how to operate the remote control for the receiver.



The remote has been conveniently color-coded according to component control using the following system:

- White Receiver control, TV control
- Blue Other controls (See page 47, 48, 51, 54 and 84.)

#### 1 MULTI-ZONE operation selector switch

Switch to perform operations in the main zone, ZONE 2 and ZONE 3 (page 76).

### 2 O RECEIVER

This switches between standby and on for this receiver.

#### 3 MULTI OPERATION

Use this button to perform multi operations (page 95).

#### 4 Input function buttons

Press to select control of other components (page 79). There is no **AUX** input on this receiver, so the **AUX** button cannot be used.

#### 5 INPUT SELECT

Use to select the input function (page 46).

#### 6 Character display

This display shows information when transmitting control signals. The remote screen's display differs when operating the receiver by sending infrared signals from the remote control and when operating it by RF two-way communications. For details, see *Remote control display* on page 12.

#### 7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the  $\ensuremath{\text{TV}}$  operation selector switch.

#### 8 Receiver setting buttons

Set the remote control operation selector switch to **RECEIVER** first to access:

**AUDIO PARAMETER** – Use to access the Audio options (page 72).

**VIDEO PARAMETER** – Use to access the Video options (page 74).

**HOME MENU** – Use to access the Home Menu (pages 42, 44, 69, 100, 110 and 113).

**RETURN** – Press to confirm and exit the current menu screen.

#### 9 **↑**/**↓**/←/→/ENTER

Use the arrow buttons when setting up your surround sound system (see page 100) and the Audio or Video options (page 72 or 74).

#### 10 Receiver Control buttons

Set the remote control operation selector switch to **RECEIVER** first to access:

**PHASE CTRL** – Press to switch on/off Phase Control or Full Band Phase Control (page 60).

**CH LEVEL** – Press repeatedly to select a channel, then use  $\Leftarrow/\Rightarrow$  to adjust the level (page 112).

**THX** – Press to select a Home THX listening mode (page 57).

**PQLS** – Press to select the PQLS setting (page 71).

**AUTO/ALC/DIRECT** – Switches between Auto Surround (page 56), Auto Level Control, Optimum Surround mode and Stream Direct mode (page 59).

**STEREO** – Switches between stereo playback and Front Stage Surround Advance modes (page 58).

**STANDARD** – Press for Standard decoding and to switch various modes (**DD** Pro Logic, Neo:6, etc.) (page 56).

**ADV SURR** – Use to switch between the various surround modes (page 58).

**SIGNAL SEL** – Use to select an input signal (page 59). **SLEEP** – Use to put the receiver in sleep mode and select the amount of time before sleep (page 77).

DIMMER – Dims or brightens the display (page 77).

**A.ATT** – Attenuates (lowers) the level of an analog input signal to prevent distortion (page 76).

SBch – With this receiver, SBch cannot be used.

**MCACC** – Press to switch between MCACC presets (page 59).

**HDMI OUT** – Switch the HDMI output terminal (page 77).

#### 11 🛱 LIGHT

Press to turn on/off the illumination for the buttons.<sup>1</sup>

#### 12 Remote control operation selector switch

Set to **RECEIVER** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.

When this switch is set to **RECEIVER**, the receiver can be controlled (used to select the white commands). Also use this switch to set up surround sound.

#### 13 VOL +/-

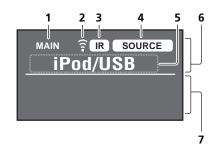
Use to set the listening volume.

#### 14 MUTE

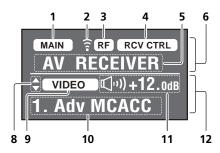
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

### Remote control display<sup>2</sup>

#### Remote control display for infrared signal transmission (default)



# Remote control display for RF two-way communications<sup>3</sup>



#### 1 Remote control operating zone indicator

This indicates which zone the remote control is currently set to operate. The display indicates the setting of the MULTI-ZONE operation selector switch.

Only when RF two-way communications:

The box display here indicates the communication status between this remote control unit and the receiver.

(MAIN) (White box with black letters): Two-way communications are established and the receiver's power is on.

#### 🖉 Note

1 Press and hold in the **LIGHT** button for 5 seconds to change the illumination mode 1 or 2. When set to **LIGHT MODE 2** (default), the illumination only lights when the remote control **LIGHT** button is pressed. When switched to **LIGHT MODE 1**, the illumination lights whenever buttons are operated. Setting **LIGHT MODE 1** will shorten the service life of the batteries.

2 The display lights when a remote control operation is performed, then turns off after 20 seconds if no other operation is performed. When in the Remote Setup mode, the setup is canceled and the display turns off if no operation is performed for 1 minute (page 79).

3 • This is displayed when an RF adapter is connected to the receiver and paired with the remote control. For details, see Using the RF communications function on page 87.

<sup>•</sup> Depending on the communications environment, two-way communications may not work well and the remote control display may not reflect the receiver's status.

**MAIN** (Gray box with black letters): Two-way communications are established and the receiver's power is off.

(White letters only): Two-way communications are not working well. In this case, the area indicating the receiver's status (**12**) is not displayed.

#### 2 Remote control code sending indicator

This appears when signals are sent from the remote control.

#### 3 Remote control code sending mode indicator

This indicates whether remote control codes are being sent by infrared (**IR**) signal or **RF** communications.

#### 4 Remote control operation indicator

This indicates which operation mode the remote control is currently set to. The display indicates the setting of the remote control operation selector switch.

#### 5 Input function and sending code indicator

This indicates what input function can currently be operated with the remote control. Also, when a button is pressed and its operation code is sent, the name of that code is displayed.

#### 6 Area indicating the remote control's status

#### 7 Nothing displayed

Nothing is displayed here when the remote control code sending mode is set to **IR**.

#### 8 Scroll indicators

Light when there are more selectable items when making the various settings.

#### 9 Receiver input indicator

This indicates the input function currently selected for the receiver's zone.

#### 10 Receiver display

The same information as on the receiver's display is displayed here.

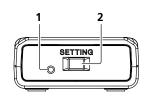
#### 11 Master volume display

This indicates the volume of the receiver's main zone using, as an icon and in decibels (dB). When the sound is muted, the  $\mathbf{t}$  icon is displayed.

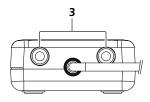
#### 12 Area indicating the receiver's status

#### **RF** adapter

#### Front



Rear



#### 1 LED

#### 2 SETTING

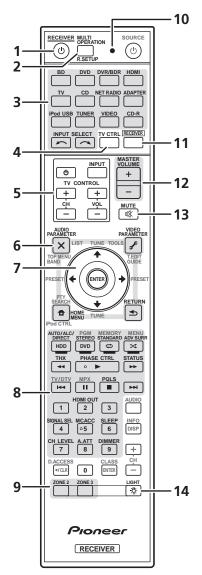
Use to pairing the RF adapter and remote control (page 87).

#### 3 IR blaster terminals

Connect the IR blaster cable (page 88).

### Remote control (In case of SC-LX73)

This section explains how to operate the remote control for the receiver.



The remote has been conveniently color-coded according to component control using the following system:

- White Receiver control, TV control
- **Blue** Other controls (See page 47, 48, 51, 53, 54 and 97.)

#### 

This switches between standby and on for this receiver.

2 MULTI OPERATION – Use to perform multi operations (page 95).

**R.SETUP** – Use to input the preset code when making remote control settings and to set the remote control mode (page 79).

#### 3 Input function buttons

Press to select control of other components (page 79).

Use **INPUT SELECT** to select the input function (page 46).

#### 4 TV CTRL

Set the preset code of your TV's manufacturer when controlling the TV (page 93).

#### 5 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button.

#### 6 Receiver setting buttons

Press RECEIVER first to access:

**AUDIO PARAMETER** – Use to access the Audio options (page 72).

**VIDEO PARAMETER** – Use to access the Video options (page 74).

**HOME MENU** – Use to access the Home Menu (pages 42, 44, 69, 100, 110 and 113).

**RETURN** – Press to confirm and exit the current menu screen.

#### 7 **↑**/↓/←/→/ENTER

Use the arrow buttons when setting up your surround sound system (see page 100) and the Audio or Video options (page 72 or 74).

#### 8 Receiver Control buttons

Press RECEIVER first to access:

**AUTO/ALC/DIRECT** – Switches between Auto Surround (page 56), Auto Level Control mode and Stream Direct mode (page 59).

**STEREO** – Switches between stereo playback and Front Stage Surround Advance modes (page 58).

**STANDARD** – Press for Standard decoding and to switch various modes (**DD** Pro Logic, Neo:6, etc.) (page 56).

**ADV SURR** – Use to switch between the various surround modes (page 58).

**THX** – Press to select a Home THX listening mode (page 57).

**PHASE CTRL** – Press to switch on/off Phase Control (page 59).

**STATUS** – Press to check selected receiver settings (page 77).

**PQLS** – Press to select the PQLS setting (page 71).

**HDMI OUT** – Switch the HDMI output terminal (page 77).

**SIGNAL SEL** – Use to select an input signal (page 59). **MCACC** – Press to switch between MCACC presets (page 59).

**SLEEP** – Use to put the receiver in sleep mode and select the amount of time before sleep (page 77).

**CH LEVEL** – Press repeatedly to select a channel, then use  $\leftarrow/\rightarrow$  to adjust the level (page 112).

**A.ATT** – Attenuates (lowers) the level of an analog input signal to prevent distortion (page 76).

**DIMMER** – Dims or brightens the display (page 77).

#### 9 MULTI-ZONE select buttons

Switch to perform operations in ZONE 2 and ZONE 3 (page 76).

#### 10 Remote control LED

Lights when a command is sent from the remote control.

# Display

#### 11 RECEIVER

Switches the remote to control the receiver (used to select the white commands).

Switch to perform operations in the main zone.

Also use this button to set up surround sound.

#### 12 MASTER VOLUME +/-

Use to set the listening volume.

#### 13 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

#### 14 🖑

Press to turn on/off the illumination for the buttons. The way the buttons light can be selected from four modes (page 95).

1	2	3	4	5 6789	10 11	12 13 14
		DIDIGITAL PLUS	DSD PCM FU	JLL BAND		
PCM	L SR	DCITrueHD WMA9Pro		ALC ATT		hh.Q
		Dodigital Plus Dotruehd WMA9Pro DTS HD ES 96/24	S.RIRV SOUN	D OVER	MONO	dB
ANALOG	((LFE)) MS		R D	DVD TV VIDI	O HMG USB	
AUTO SURRO		CD-R PHON	O iPod E	BD DVR HDI		[4]
STREAM DIF	RECT					
STEREO STAN						
SP►AB	SLEEP:			1000 0000 0000 0C		
6 15	16 17 18			19		20

#### 1 SIGNAL indicators

Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically (page 59).

#### 2 Program format indicators

Light to indicate the channels to which digital signals are being input.

L/R – Left front/Right front channel

**C** – Center channel

SL/SR – Left surround/Right surround channel

 $\mbox{LFE}$  – Low frequency effects channel (the (( )) indicators light when an LFE signal is being input)

XL/XR – Two channels other than the ones above

XC – Either one channel other than the ones above, the mono surround channel or matrix encode flag

#### 3 Digital format indicators

Light when a signal encoded in the corresponding format is detected.

DI DIGITAL – Lights with Dolby Digital decoding. DI DIGITAL PLUS – Lights with Dolby Digital Plus decoding.

**D TrueHD** – Lights with Dolby TrueHD decoding.

**DTS** – Lights with DTS decoding.

**DTS HD** – Lights with DTS-HD decoding.

96/24 – Lights with DTS 96/24 decoding.

**WMA9 Pro** – Lights to indicate that a WMA9 Pro signal is being decoded.

**DSD PCM** – Light during DSD (Direct Stream Digital) to PCM conversion with SACDs.

**PCM** – Lights during playback of PCM signals. **MSTR** – Lights during playback of DTS-HD Master Audio signals.

#### 4 MULTI-ZONE

Lights when the MULTI-ZONE feature is active (page 75).

#### 5 FULL BAND

*SC-LX83 only:* Lights when the Full Band Phase Control is switched on (page 60).

#### 6 Listening mode indicators

**AUTO SURROUND** – Lights when the Auto Surround feature is switched on (page 56).

**ALC** – Lights when the ALC (Auto level control) mode is selected (page 59).

**ADV.SURROUND** – Lights when one of the Advanced Surround modes has been selected (page 58).

**STEREO** – Lights when stereo listening is switched on (page 58).

**STANDARD** – Lights when one of the Standard Surround modes is switched on (page 56).

**THX** – Lights when one of the Home THX modes is selected (page 57).

#### 7 **PHASE CONTROL**

Lights when the Phase Control or Full Band Phase Control<sup>1</sup> is switched on (page 59 and 60).

#### 8 Analog signal indicators

Light to indicate reducing the level of an analog signal (page 76).

#### 9 SOUND

Lights when any of the Midnight, Loudness or tone controls features is selected (page 72).

Lights when Dialog Enhancement is switched on.

#### 10 Tuner indicators

**TUNED** – Lights when a broadcast is being received. **STEREO** – Lights when a stereo FM broadcast is being received in auto stereo mode.

**MONO** – Lights when the mono mode is set using **MPX**.

**RDS** – Lights when an RDS broadcast is received.

#### 11 🗱

Lights when the sound is muted (page 15).

#### 12 Master volume level

Shows the overall volume level.

"---" indicates the minimum level, and "+12dB" indicates the maximum level.

#### 13 Input function indicators

Light to indicate the input function you have selected. (**HMG** only lights for the SC-LX83.)

#### 14 Scroll indicators

Light when there are more selectable items when making the various settings.

#### 15 Speaker indicators

Lights to indicate the current speaker system, **A** and/or **B** (page 75).

#### 16 SLEEP

Lights when the receiver is in sleep mode (page 77).

#### 17 Matrix decoding format indicators

DCIPRO LOGIC IIx – This lights to indicate DCI Pro Logic II / DCI Pro Logic IIx decoding (page 56). Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing (page 56).

#### 18 S.RTRV

Lights when the Sound Retriever function is active (page 72).

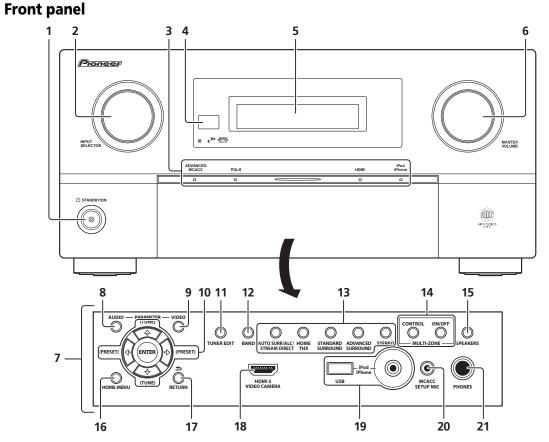
#### 19 Character display

Displays various system information.

#### 20 Remote control mode indicator

Lights to indicate the receiver's remote control mode setting. (Not displayed when set to **1**.) (*SC-LX83:* page 80, *SC-LX73:* page 92)

# **Controls and displays**



#### 1 O STANDBY/ON

Switches the receiver between on and standby.

#### 2 INPUT SELECTOR dial

Use to select an input function.

#### 3 Indicators

**ADVANCED MCACC** – Lights when **EQ** is set to **ON** in the **AUDIO PARAMETER** menu (page 72).

**PQLS** – Lights when the PQLS feature is active (page 71).

**HDMI** – Blinks when connecting an HDMI-equipped component; lights when the component is connected (page 28).

**iPod/iPhone** – Lights to indicate iPod/iPhone is connected (page 38).

#### 4 Remote sensor

Receives the signals from the remote control (see *Operating range of remote control unit* on page 10).

#### 5 Character display

See Display on page 15.

6 MASTER VOLUME dial

#### 7 Front panel controls

To access the front panel controls, push gently on the lower third portion of the panel with your finger.



#### 8 AUDIO PARAMETER

Use to access the Audio options (page 72).

#### 9 VIDEO PARAMETER

Use to access the Video options (page 74).

#### 10 $\uparrow/\downarrow/\leftarrow/\Rightarrow$ (TUNE/PRESET) /ENTER

Use the arrow buttons when setting up your **Home** Menu. Use **TUNE**  $\uparrow/\downarrow$  to find radio frequencies and use **PRESET**  $\leftarrow/\Rightarrow$  to find preset stations (page 51).

#### **11 TUNER EDIT**

Use with  $\uparrow/\downarrow/\langle / \rangle$ /ENTER to memorize and name stations for recall (page 51).

#### 12 BAND

Switches between AM and FM radio bands (page 51).

#### 13 Listening mode buttons

**AUTO SURR/ALC/STREAM DIRECT** – Switches between Auto Surround (page 56), Auto Level Control, Optimum Surround<sup>1</sup> mode and Stream Direct mode (page 59).

**HOME THX** – Press to select a Home THX listening mode (page 57).

#### STANDARD SURROUND – Press for Standard

decoding and to switch various modes (DD Pro Logic, Neo:6, etc.) (page 56).

**ADVANCED SURROUND** – Use to switch between the various surround modes (page 58).

**STEREO** – Switches between stereo playback and Front Stage Surround Advance modes (page 58).

#### 14 MULTI-ZONE controls

If you've made MULTI-ZONE connections (see *MULTI-ZONE setup* on page 36) use these controls to control the sub zone from the main zone (see *Using the MULTI-ZONE controls* on page 75).

#### 15 SPEAKERS

Use to change the speaker terminal (page 75).

#### 16 HOME MENU

Press to access the Home Menu (pages 42, 44, 69, 100, 110 and 113).

#### 17 RETURN

Press to confirm and exit the current menu screen.

#### 18 HDMI input connector

Use for connection to a compatible HDMI device (Video camera, etc.) (page 38).

#### 19 iPod/iPhone/USB terminals

Use to connect your Apple iPod as an audio and video source, or connect a USB device for audio and photo playback (page 38).

#### 20 MCACC SETUP MIC jack

Use to connect the supplied microphone (page 42).

#### 21 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

**18** En

# Chapter 3: Connecting your equipment

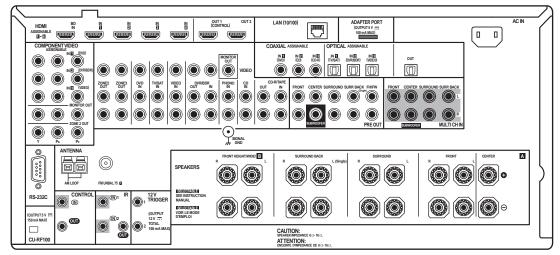
This receiver provides you with many connection possibilities, but it doesn't have to be difficult. This chapter explains the kinds of components you can connect to make up your home theater system.

# Important

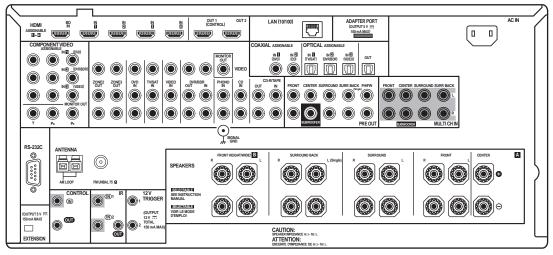
• Illustration shows the SC-LX83, however connections for the SC-LX73 are the same except where noted.

# Rear panel

SC-LX83



SC-LX73



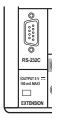
🖉 Note

• The input functions below are assigned by default to the receiver's different input terminals. Refer to *The Input Setup menu* on page 44 to change the assignments if other connections are used.

Input function	Input Terminals			
input function	Digital HDMI		Component	
DVD	COAX-1		IN 1	
BD		( <b>BD</b> )		
TV/SAT	OPT-1			
DVR/BDR	OPT-2		IN 2	
VIDEO	OPT-3		IN 3	
HDMI 1		(HDMI-1)		
HDMI 2		(HDMI-2)		
HDMI 3		(HDMI-3)		
HDMI 4		(HDMI-4)		
HDMI 5 (front panel)		(HDMI-5)		
CD	COAX-2			
CD-R/TAPE	COAX-3 <sup>a</sup>			

a.SC-LX83 only.

 SC-LX73 only: The CU-RF100 omni-directional remote control (separately sold) can be connected to the RS-232C and EXTENSION terminals. Using the CU-RF100 lets you display the receiver's display information on the remote control display in your hands and operate it without worrying about obstacles or the direction in which the remote control is pointing.



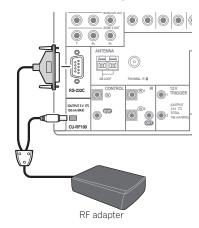
# 

• Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

# Connecting the RF adapter

#### (SC-LX83 only)

Two-way communications between the receiver and remote control are possible by connecting the included RF adapter to the RS-232C and CU-RF100 terminals on the receiver. For the features of two-way communications and detailed usage instructions, see *Using the RF communications function* on page 87.



### Determining the speakers' application

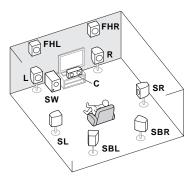
This unit permits you to build various surround systems, in accordance with the number of speakers you have.

- Be sure to connect speakers to the front left and right channels (**L** and **R**).
- It is also possible to only connect one of the surround back speakers (**SB**) or neither.

Choose one from Plans [A] to [E] below.

#### [A] 9.1 channel surround system (Front height) \*Default setting

• Speaker System setting: Normal(SB/FH)

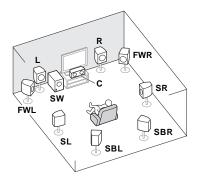


A 9.1 ch surround system connects the left and right front speakers (L/R), the center speaker (C), the left and right front height speakers (**FHL/FHR**), the left and right surround speakers (**SL/SR**), the left and right surround back speakers (**SBL/SBR**), and the subwoofer (**SW**).

This surround system produces a more true-to-life sound from above.

### [B] 9.1 channel surround system (Front wide)

• Speaker System setting: Normal(SB/FW)

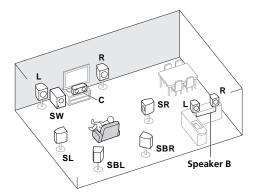


This plan replaces the left and right front height speakers shown in [A] with the left and right front wide speakers (**FWL/FWR**).

This surround system produces a true-to-life sound over a wider area.

# [C] 7.1 channel surround system & Speaker B connection

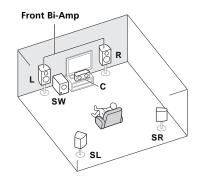
• Speaker System setting: Speaker B



With these connections you can simultaneously enjoy 5.1-channel surround sound in the main zone with stereo playback of the same sound on the B speakers. The same connections also allow for 7.1-channel surround sound in the main zone when not using the B speakers.

# [D] 5.1 channel surround system & Front Biamping connection (High quality surround) • Speaker System setting: Front Bi-Amp

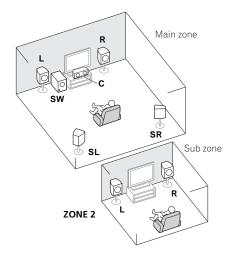
Bi-amping connection of the front speakers for high sound quality with 5.1-channel surround sound.



#### [E] 5.1 channel surround system & ZONE 2 connection (Multi Zone)

Speaker System setting: ZONE 2

With these connections you can simultaneously enjoy 5.1-channel surround sound in the main zone with stereo playback on another component in ZONE 2. (The selection of input devices is limited.)



# Important

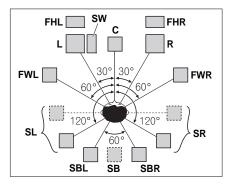
- The **Speaker System** setting must be made if you use any of the connections shown above other than [A] (see *Speaker system setting* on page 111).
- Sound does not come through simultaneously from the front height, front wide, speaker B and surround back speakers. Output speakers are different depending on the input signal or listening mode.

#### Other speaker connections

- Your favorite speaker connections can be selected even if you have fewer than 5.1 speakers (except front left/right speakers).
- When not connecting a subwoofer, connect speakers with low frequency reproduction capabilities to the front channel. (The subwoofer's low frequency component is played from the front speakers, so the speakers could be damaged.)
- After connecting, be sure to conduct the Full Auto MCACC (speaker environment setting) procedure. See Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42.

### Placing the speakers

Refer to the chart below for placement of the speakers you intend to connect.



- Place the surround speakers at 120° from the center. If you, (1) use the surround back speaker, and, (2) don't use the front height speakers / front wide speakers, we recommend placing the surround speaker right beside you.
- If you intend to connect only one surround back speaker, place it directly behind you.
- Place the left and right front height speakers at least one meter directly above the left and right front speakers.

#### THX speaker system setup

If you are using a THX certified subwoofer, use the **THX INPUT** jack on the subwoofer (if your subwoofer has one) or switch the filter position to **THX** on your subwoofer.

See also *THX Audio Setting* on page 113 to make the settings that will give you the best sound experience when using the Home THX modes (page 57).

#### Some tips for improving sound quality

Where you put your speakers in the room has a big effect on the quality of the sound. The following guidelines should help you to get the best sound from your system.

- The subwoofer can be placed on the floor. Ideally, the other speakers should be at about ear-level when you're listening to them. Putting the speakers on the floor (except the subwoofer), or mounting them very high on a wall is not recommended.
- For the best stereo effect, place the front speakers 2 m to 3 m apart, at equal distance from the TV.
- If you're going to place speakers around your CRTTV, use shielded speakers or place the speakers at a sufficient distance from your CRTTV.
- If you're using a center speaker, place the front speakers at a wider angle. If not, place them at a narrower angle.

- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen. Also, make sure the center speaker does not cross the line formed by the leading edge of the front left and right speakers.
- It is best to angle the speakers towards the listening position. The angle depends on the size of the room. Use less of an angle for bigger rooms.
- Surround and surround back speakers should be positioned 60 cm to 90 cm higher than your ears and tilted slightly downward. Make sure the speakers don't face each other. For DVD-Audio, the speakers should be more directly behind the listener than for home theater playback.
- Try not to place the surround speakers farther away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.

### **Connecting the speakers**

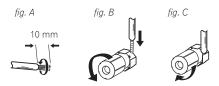
Each speaker connection on the receiver comprises a positive (+) and negative (–) terminal. Make sure to match these up with the terminals on the speakers themselves.

# 

- These speaker terminals carry HAZARDOUS LIVE voltage. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts.
- Make sure that all the bare speaker wire is twisted together and inserted fully into the speaker terminal. If any of the bare speaker wire touches the back panel it may cause the power to cut off as a safety measure.

#### Bare wire connections

- 1 Twist exposed wire strands together. (fig. A)
- 2 Loosen terminal and insert exposed wire. (fig. B)
- 3 Tighten terminal. (fig. C)



### 😧 Important

- Please refer to the manual that came with your speakers for details on how to connect the other end of the speaker cables to your speakers.
- Use an RCA cable to connect the subwoofer. It is not possible to connect using speaker cables.

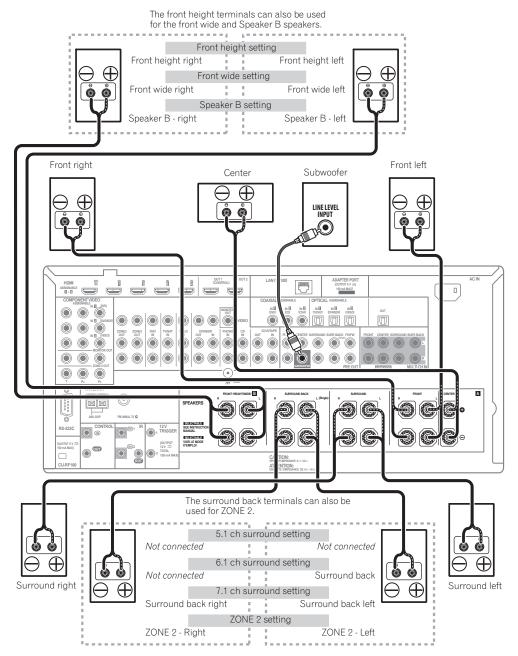
# 

• Make sure that all speakers are securely installed. This not only improves sound quality, but also reduces the risk of damage or injury resulting from speakers being knocked over or falling in the event of external shocks such as earthquakes.

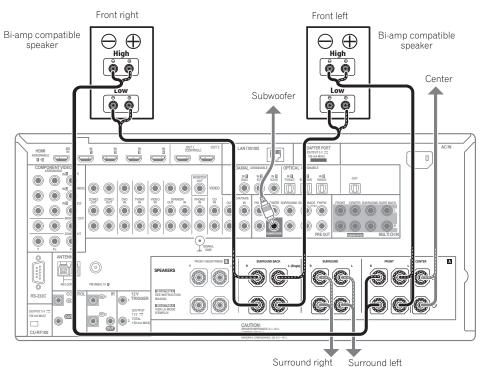
# Installing your speaker system

At the very least, front left and right speakers only are necessary. Note that your main surround speakers should always be connected as a pair, but you can connect just one surround back speaker if you like (it must be connected to the left surround back terminal).

#### Standard surround connection



#### **Bi-amping your speakers**



Bi-amping is when you connect the high frequency driver and low frequency driver of your speakers to different amplifiers for better crossover performance. Your speakers must be bi-ampable to do this (having separate terminals for high and low) and the sound improvement will depend on the kind of speakers you're using.

# 

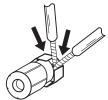
- Most speakers with both High and Low terminals have two metal plates that connect the High to the Low terminals. These must be removed when you are bi-amping the speakers or you could severely damage the amplifier. See your speaker manual for more information.
- If your speakers have a removable crossover network, make sure you do not remove it for bi-amping. Doing so may damage your speakers.

#### **Bi-wiring your speakers**

Your speakers can also be bi-wired if they support biamping.

• With these connections, the **Speaker System** setting makes no difference.

# • To bi-wire a speaker, connect two speaker cords to the speaker terminal on the receiver.



# 

- Don't connect different speakers from the same terminal in this way.
- When bi-wiring as well, heed the cautions for biamping shown at the left.

03

### Selecting the Speaker system

The front height terminals can be used for front wide and Speaker B connections, in addition to for the front height speakers. Also, the surround back terminals can be used for bi-amping and ZONE 2 connections, in addition to for the surround back speakers. Make this setting according to the application.

#### **Front height setup**

\*Default setting

# 1 Connect a pair of speakers to the front height speaker terminals.

See Standard surround connection on page 24.

# 2 If necessary, select 'Normal(SB/FH)' from the Speaker System menu.

See Speaker system setting on page 111 to do this.

#### Front wide setup

# 1 Connect a pair of speakers to the front height speaker terminals.

See Standard surround connection on page 24.

# 2 Select 'Normal(SB/FW)' from the Speaker System menu.

See Speaker system setting on page 111 to do this.

#### Speaker B setup

You can listen to stereo playback in another room.

# 1 Connect a pair of speakers to the front height speaker terminals.

See Standard surround connection on page 24.

#### 2 Select 'Speaker B' from the Speaker System menu.

See Speaker system setting on page 111 to do this.

#### **Bi-Amping setup**

Bi-amping connection of the front speakers for high sound quality with 5.1-channel surround sound.

# 1 Connect bi-amp compatible speakers to the front and surround back speaker terminals.

See Bi-amping your speakers on page 25.

# 2 Select 'Front Bi-Amp' from the Speaker System menu.

See Speaker system setting on page 111 to do this.

#### **ZONE 2 setup**

With these connections you can simultaneously enjoy 5.1-channel surround sound in the main zone with stereo playback on another component in ZONE 2.

# 1 Connect a pair of speakers to the surround back speaker terminals.

See Standard surround connection on page 24.

#### 2 Select 'ZONE 2' from the Speaker System menu.

See Speaker system setting on page 111 to do this.

### About the audio connection

	Types of cables and terminals	Transferable audio signals
Sound signal priority 🕈		HD audio
Sound sign	Digital (Coaxial)  Digital (Optical)	Conventional digital audio
	RCA (Analog) (White/Red)	Conventional analog audio

• With an HDMI cable, video and audio signals can be transferred in high quality over a single cable.

### About the video converter

The video converter ensures that all video sources are output through all of the **MONITOR VIDEO OUT** jacks. The only exception is HDMI: since this resolution cannot be downsampled, you must connect your monitor/TV to the receiver's HDMI video outputs when connecting this video source.<sup>1</sup>

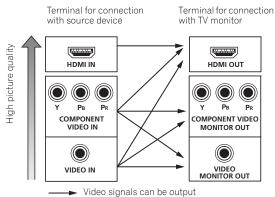
#### 🔗 Note

1 • If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, try switching Digital Video Conversion (in Setting the Video options on page 74) OFF.

• The signal input resolutions that can be converted from the component video input for the HDMI output are 480i/576i, 480p/576p, 720p and 1080i. 1080p signals cannot be converted.

• Only signals with an input resolution of 480i/576i can be converted from the component video input for the composite **MONITOR OUT** terminals.

If several video components are assigned to the same input function (see *The Input Setup menu* on page 44), the converter gives priority to HDMI, component, then composite (in that order).



• For optimal video performance, THX recommends switching Digital Video Conversion (in *Setting the Video options* on page 74) **OFF**.

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# About HDMI<sup>1</sup>

The HDMI connection transfers uncompressed digital video, as well as almost every kind of digital audio.

This receiver incorporates High-Definition Multimedia Interface (HDMI<sup>®</sup>) technology.

This receiver supports the functions described below through HDMI connections.<sup>2</sup>

- Digital transfer of uncompressed video (contents protected by HDCP (1080p/24, 1080p/60, etc.))
- 3D signal transfer<sup>3</sup>
- Deep Color signal transfer<sup>3</sup>
- x.v.Color signal transfer<sup>3</sup>
- Audio Return Channel<sup>3</sup>
- Input of multi-channel linear PCM digital audio signals (192 kHz or less) for up to 8 channels
- Input of the following digital audio formats:<sup>4</sup>

   Dolby Digital, Dolby Digital Plus, DTS, High bitrate audio (Dolby TrueHD, DTS-HD Master Audio, DTS-HD High Resolution Audio), DVD-Audio, CD, SACD (DSD signal), Video CD, Super VCD
- Synchronized operation with components using the **Control** with HDMI function (see *Control with HDMI function* on page 68)

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

"x.v.Color" and x.v.Color logo are trademarks of Sony Corporation.

#### 🔗 Note

• An HDMI connection can only be made with DVI-equipped components compatible with both DVI and High Bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI→HDMI) to do so. A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.

• If you connect a component that is not compatible with HDCP, an **HDCP ERROR** message is displayed on the front panel display. Some components that are compatible with HDCP still cause this message to be displayed, but so long as there is no problem with displaying video this is not a malfunction.

- Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.
- This receiver supports SACD, Dolby Digital Plus, Dolby TrueHD and DTS-HD Master Audio. To take advantage of these formats, however, make sure that the component connected to this receiver also supports the corresponding format.
- 2 Use a High Speed HDMI® cable. If an HDMI cable other than a High Speed HDMI® cable is used, it may not work properly.
- When an HDMI cable with a built-in equalizer is connected, it may not operate properly.
- 3 Signal transfer is only possible when connected to a compatible component.

4 • HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback.

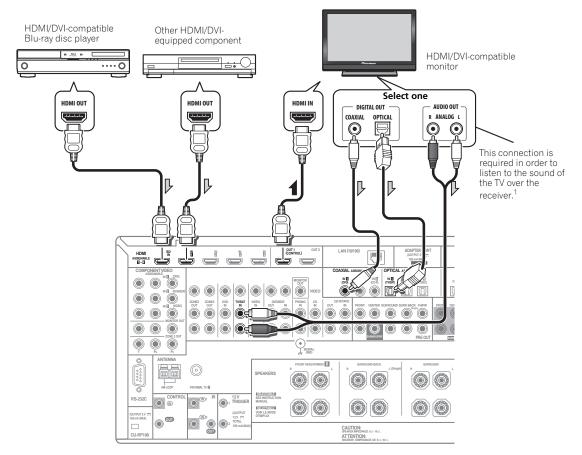
• Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/connecting the HDMI cable during playback, may cause noise or interrupted audio.

# **Connecting your TV and playback components**

#### **Connecting using HDMI**

If you have an HDMI or DVI (with HDCP) equipped component (Blu-ray disc player (BD), etc.), you can connect it to this receiver using a commercially available HDMI cable.

If the TV and playback components support the **Control** with HDMI feature, the convenient **Control** with HDMI functions can be used (see *Control with HDMI function* on page 68).



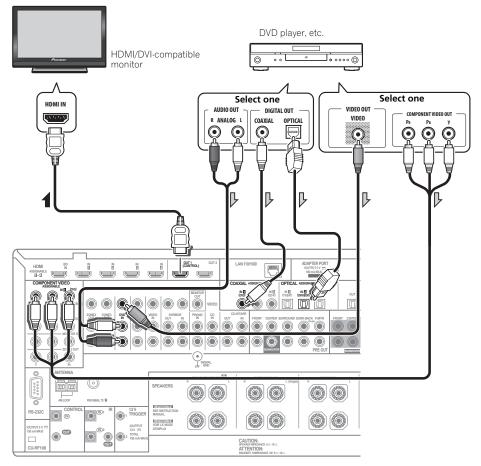
- When connecting to an HDMI/DVI-compatible monitor using the HDMI OUT 2 terminal, switch the HDMI output setting to HDMI OUT 2 or HDMI OUT ALL. See Switching the HDMI output on page 77.
- For input components, connections other than HDMI connections are also possible (see *Connecting your DVD player with no HDMI output* on page 29).
- If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables.<sup>1</sup>

#### 🔗 Note

<sup>1</sup> When the TV and receiver are connected by HDMI connections, if the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set **TV Audio** at **HDMI Setup** to **via HDMI** (see *HDMI Setup* on page 69).

#### Connecting your DVD player with no HDMI output

This diagram shows connections of a TV (with HDMI input) and DVD player (or other playback component with no HDMI output) to the receiver.



- If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables (page 28).<sup>1</sup>
- If you use an optical digital audio cable, you'll need to tell the receiver which digital input you connected the player to (see *The Input Setup menu* on page 44).

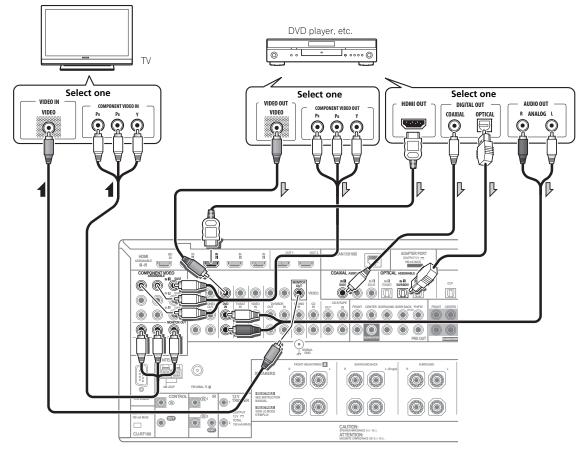
#### 🔗 Note

When the TV and receiver are connected by HDMI connections, if the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set **TV Audio** at **HDMI Setup** to **via HDMI** (see *HDMI Setup* on page 69).

#### Connecting your TV with no HDMI input

This diagram shows connections of a TV (with no HDMI input) and DVD player (or other playback component) to the receiver.

• With these connections, the picture is not output to the TV even if the DVD player is connected with an HDMI cable. Connect the DVD player's video signals using a composite or component cord.



 Connect using an HDMI cable to listen to HD audio on the receiver. Do not use an HDMI cable to input video signals.

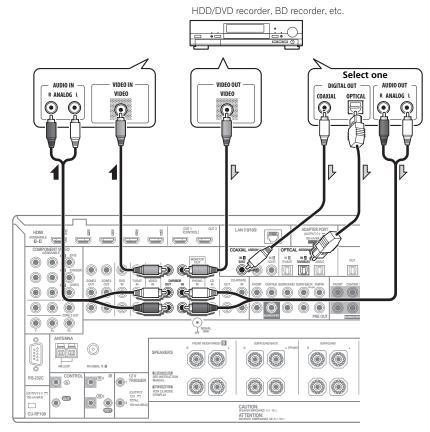
Depending on the video component, it may not be possible to output signals connected by HDMI and other methods simultaneously, and it may be necessary to make output settings. Please refer to the operating instructions supplied with your component for more information.

- If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables (page 28).
- If you use an optical digital audio cable, you'll need to tell the receiver which digital input you connected the player to (see *The Input Setup menu* on page 44).

### Connecting an HDD/DVD recorder, BD recorder and other video sources

This receiver has two sets of audio/video inputs and outputs suitable for connecting analog or digital video devices, including HDD/DVD recorders and BD recorders.

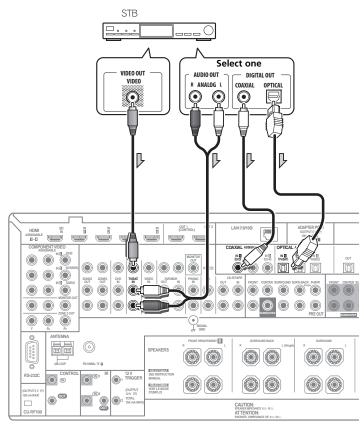
When you set up the receiver you'll need to tell the receiver which input you connected the recorder to (see also *The Input Setup menu* on page 44).



- In order to record, you must connect the analog audio cables (the digital connection is for playback only) (page 76).
- If your HDD/DVD recorder, BD recorder, etc., is equipped with an HDMI output terminal, we recommend connecting it to the receiver's **HDMI IN** terminal. When doing so, also connect the receiver and TV by HDMI (see *Connecting using HDMI* on page 28).

### Connecting a satellite/cable receiver or other set-top box

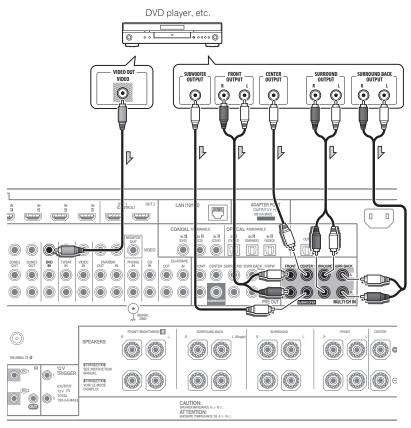
Satellite and cable receivers, and terrestrial digital TV tuners are all examples of so-called 'set-top boxes'. When you set up the receiver you'll need to tell the receiver which input you connected the set-top box to (see *The Input Setup menu* on page 44).



 If your set-top box is equipped with an HDMI output terminal, we recommend connecting it to the receiver's HDMI IN terminal. When doing so, also connect the receiver and TV by HDMI (see *Connecting using HDMI* on page 28).

# Connecting the multichannel analog inputs

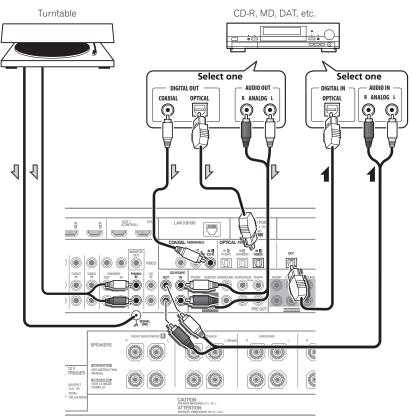
For DVD Audio and SACD playback, your DVD player may have 5.1, 6.1 or 7.1 channel analog outputs (depending on whether your player supports surround back channels). Make sure that the player is set to output multichannel analog audio.



- If there is a single surround back output, connect it to the **SURROUND BACK L** jack on this receiver.
- To use a 5.1-channel speaker set, use the surround speakers for the surround channel, not the surround back channel.
- The audio signal input to **MULTI CH IN** cannot be downmixed.

### **Connecting other audio components**

This receiver has both digital and analog inputs, allowing you to connect audio components for playback. When you set up the receiver you'll need to tell the receiver which input you connected the component to (see also *The Input Setup menu* on page 44).



- If you're connecting a recorder, connect the analog audio outputs to the analog audio inputs on the recorder.
- You can't hear HDMI audio through this receiver's digital out jack.

Turntables only:

- If your turntable has a grounding wire, secure it to the ground terminal on this receiver.
- If your turntable has line-level outputs (i.e., it has a built-in phono pre-amp), connect it to the CD inputs instead.

#### About the WMA9 Pro decoder

This unit has an on-board Windows Media<sup>™</sup> Audio 9 Professional<sup>1</sup> (WMA9 Pro) decoder, so it is possible to playback WMA9 Pro-encoded audio using HDMI, coaxial or optical digital connection when connected to a WMA9 Pro-compatible player. However, the connected DVD player, set-top box, etc. must be able to output WMA9 Pro format audio signals through a coaxial or optical digital output.

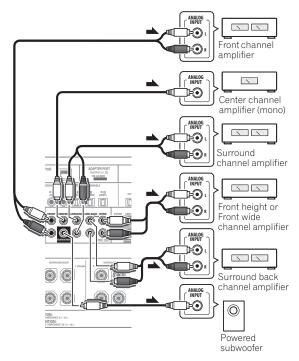
#### 🖉 Note

<sup>1 •</sup> Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

With WMA9 Pro, sound problems may occur depending on your computer system. Note that WMA9 Pro 96 kHz sources will be downsampled to 48 kHz.

# **Connecting additional amplifiers**

This receiver has more than enough power for any home use, but it's possible to add additional amplifiers to every channel of your system using the pre-outs. Make the connections shown below to add amplifiers to power your speakers.

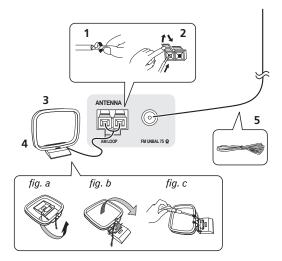


- You can use the additional amplifier on the surround back channel pre-outs for a single speaker as well. In this case plug the amplifier into the left (**L (Single)**) terminal only.
- The sound from the surround back terminals will depend on how you have configured the *Speaker* system setting on page 111.
- To hear sound only from the pre-outs, switch the speaker system to **OFF**, or simply disconnect any speakers that are connected directly to the receiver.

If you're not using a subwoofer, change the front speaker setting (see *Speaker Setting* on page 111) to **LARGE**.

#### **Connecting AM/FM antennas**

Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see *Connecting external antennas* on page 36).



1 Pull off the protective shields of both AM antenna wires.

# 2 Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires.

#### 3 Fix the AM loop antenna to the attached stand.

To fix the stand to the antenna, bend in the direction indicated by the arrow (*fig.* a) then clip the loop onto the stand (*fig.* b).

• If you plan to mount the AM antenna to a wall or other surface, secure the stand with screws (*fig. c*) before clipping the loop to the stand. Make sure the reception is clear.

# 4 Place the AM antenna on a flat surface and in a direction giving the best reception.

# 5 Connect the FM wire antenna into the FM antenna socket.

For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

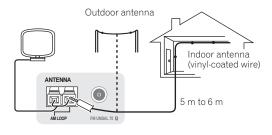
#### **Connecting external antennas**

To improve FM reception, connect an external FM antenna to FM UNBAL 75  $\Omega.$ 



To improve AM reception, connect a 5 m to 6 m length of vinyl-coated wire to the **AM LOOP** terminals without disconnecting the supplied AM loop antenna.

For the best possible reception, suspend horizontally outdoors.



#### **MULTI-ZONE** setup

This receiver can power up to three independent systems in separate rooms after you have made the proper MULTI-ZONE connections.

Different sources can be playing in three zones at the same time or, depending on your needs, the same source can also be used. The main and sub zones have independent power (the main zone power can be off while

one (or both) of the sub zones is on) and the sub zones can be controlled by the remote or front panel controls.

#### Making MULTI-ZONE connections

It is possible to make these connections if you have a separate TV and speakers for your primary (**ZONE 2**) sub zone, and a separate TV and a separate amplifier (and speakers) for your secondary (**ZONE 3**) sub zone. You will also need a separate amplifier if you are not using the *MULTI-ZONE setup using speaker terminals (ZONE 2*) on page 37 for your primary sub zone. There are two primary sub zone setups possible with this system. Choose whichever works best for you.

#### MULTI-ZONE listening options

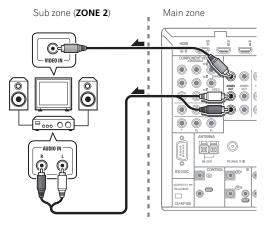
The following table shows the signals that can be output to ZONE 2 and ZONE 3<sup>1</sup>:

Sub Zone	Input functions available
ZONE 2	DVD, TV/SAT, DVR/BDR, VIDEO, HOME MEDIA GALLERY (SC-LX83 only), INTERNET RADIO (SC- LX73 only), iPod/USB, CD, CD-R/TAPE, TUNER, ADAPTER PORT
	(Outputs analog audio, composite video and component video (SC-LX83 only).)
ZONE 3	Same as ZONE 2 above. (Outputs analog audio and composite video.)
	(סטנףטנא מהמוטע מטטוט מוום כטוווףטאונפ אוםפט.)

#### **Basic MULTI-ZONE setup (ZONE 2)**

#### • Connect a separate amplifier to the AUDIO ZONE 2 OUT jacks and a TV monitor to the VIDEO ZONE 2 OUT<sup>2</sup> jack, both on this receiver.

You should have a pair of speakers attached to the sub zone amplifier as shown in the following illustration.



#### 🔗 Note

1 For the INTERNET RADIO (SC-LX73 only), HOME MEDIA GALLERY (SC-LX83 only) and iPod/USB inputs, it is not possible use the same input in ZONE 2 and ZONE 3 simultaneously.

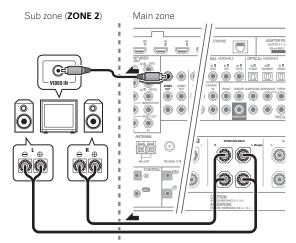
- 2 SC-LX83 only:
  - COMPONENT VIDEO ZONE 2 OUT can be used to output clear images.
  - The GUI screen is not displayed if only the COMPONENT VIDEO ZONE 2 OUT jack is connected.
- The video convert function does not work for ZONE 2. Connect the composite video and component video to the same types of jacks for the inputs and outputs.

#### MULTI-ZONE setup using speaker terminals (ZONE 2)

You must select **ZONE 2** in *Speaker system setting* on page 111 to use this setup.

## • Connect a TV monitor to the VIDEO ZONE 2 OUT iacks on this receiver.<sup>1</sup>

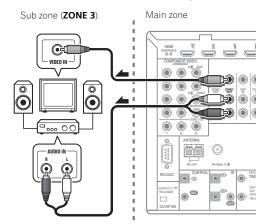
You should have a pair of speakers attached to the surround back speaker terminals as shown below.



#### Secondary MULTI-ZONE setup (ZONE 3)

#### • Connect a separate amplifier to the AUDIO ZONE 3 OUT jacks and a TV monitor to the VIDEO ZONE 3 OUT jack, both on this receiver.

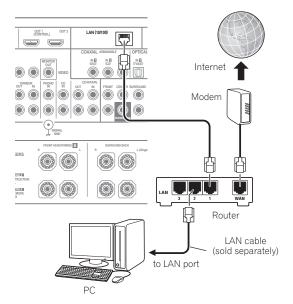
You should have a pair of speakers attached to the sub zone amplifier as shown in the following illustration.



# Connecting to the network through LAN interface

By connecting this receiver to the network via the LAN terminal, you can listen to Internet radio stations.<sup>2</sup>

SC-LX83 only: When connected in this way, you can play audio files stored on the components on the network, including your computer, using HOME MEDIA GALLERY inputs.^3



Connect the LAN terminal on this receiver to the LAN terminal on your router (with or without the built-in DHCP server function) with a straight LAN cable (CAT 5 or higher).

Turn on the DHCP server function of your router. In case your router does not have the built-in DHCP server function, it is necessary to set up the network manually. For details, see *Network Setup menu* on page 113.

#### LAN terminal specifications

LAN terminal .....Ethernet jack 10BASE-T/100BASE-TX

#### 🖉 Note

1 SC-LX83 only.

- COMPONENT VIDEO ZONE 2 OUT can be used to output clear images.
- The GUI screen is not displayed if only the COMPONENT VIDEO ZONE 2 OUT jack is connected.
- The video convert function does not work for ZONE 2. Connect the composite video and component video to the same types of jacks for the inputs and outputs.
- 2 To listen to Internet radio stations, you must sign a contract with an ISP (Internet Service Provider) beforehand.

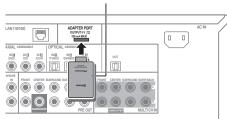
3 • Photo or video files cannot be played back.

• With Windows Media Player 11 or Windows Media Player 12, you can even play back copyrighted audio files on this receiver.

# Connecting optional *Bluetooth*® ADAPTER

When the *Bluetooth* ADAPTER (AS-BT100) is connected to this receiver, a product equipped with *Bluetooth* wireless technology (portable cell phone, digital music player, etc.) can be used to listen to music wirelessly.<sup>1</sup>





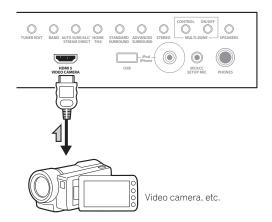
## • Switch the receiver into standby and connect *Bluetooth* ADAPTER to the ADAPTER PORT.

• For instructions on playing the *Bluetooth* wireless technology device, see *Pairing the Bluetooth ADAPTER and Bluetooth wireless technology device* on page 55.

### Important 😧

 Do not move the receiver with the *Bluetooth* ADAPTER connected. Doing so could cause damage or faulty contact.

# Connecting an HDMI-equipped component to the front panel input

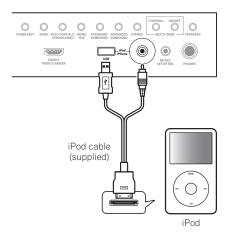


### **Connecting an iPod**

This receiver has a dedicated iPod terminal that will allow you to control playback of audio content from your iPod using the controls of this receiver.

# • Switch the receiver into standby then use the supplied iPod cable to connect your iPod to the iPod/ iPhone/USB terminal on the front panel of this receiver.

- It is also possible to connect using the cable included with the iPod, but in this case it is not possible to view pictures via the receiver.
- For the cable connection, also refer to the operating instructions for your iPod.
- For instructions on playing the iPod, see *Playing an iPod* on page 47.



#### 🔗 Note

- The *Bluetooth* wireless technology enabled device must support A2DP profiles.
- Pioneer does not guarantee proper connection and operation of this unit with all Bluetooth wireless technology enabled devices.

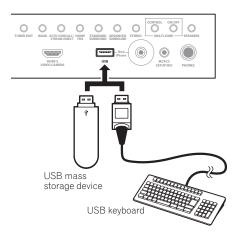
### **Connecting a USB device**

It is possible to play audio and photo files by connecting USB devices to this receiver. It is also possible to connect a USB keyboard (US-international layout) to the receiver to enter text in the following GUI screens.

- Change the input name in the **Input Setup** menu (page 44).
- Add names to radio station presets (page 51).
- SC-LX73 only: Enter Internet radio station URLs (page 53).

# • Switch the receiver into standby then connect your USB device to the USB terminal on the front panel of this receiver.<sup>1</sup>

• For instructions on playing the USB device, see *Playing a USB device* on page 48.



# Connecting a USB device for Advanced MCACC output

When using Full Auto MCACC (page 42), Auto MCACC (page 100) or Acoustic Calibration EQ Professional (page 104) to calibrate the reverb characteristics of your listening room, the 3D graphs of the reverb characteristics in your listening room (before and after calibration) can be checked on a computer screen. *SC-LX83 only:* Also, the speakers' group delay characteristics before and after calibration can be checked on 3D graphs.

The various MCACC parameters can also be checked on the computer. MCACC data and parameters are transferred from this receiver to a USB device and by connecting the USB device to a computer, the data is imported via the MCACC software in the computer.

The MCACC software to output the results is available from the support area of the Pioneer website (http:// www.pioneer.eu). Instructions for using the software are also available here. If you have any questions about the software, please contact the Pioneer Service Center specified on your warranty card.

See the documentation provided with the Advanced MCACC PC Display Application Software for more information.

• For the USB device connection and operations, see *Output MCACC data* on page 108<sup>2</sup>.

#### 🔗 Note

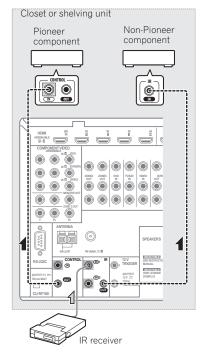
<sup>1</sup> This receiver does not support a USB hub.

<sup>2</sup> The various parameters and the reverb characteristics data used for display on the computer are not cleared when the power is turned off (see *Output MCACC data* on page 108).

### **Connecting an IR receiver**

If you keep your stereo components in a closed cabinet or shelving unit, or you wish to use the sub zone remote control in another zone, you can use an optional IR receiver (such as a Niles or Xantech unit) to control your system instead of the remote sensor on the front panel of this receiver.<sup>1</sup>

## 1 Connect the IR receiver sensor to the IR IN jack on the rear of this receiver.



# 2 Connect the IR IN jack of another component to the IR OUT jack on the rear of this receiver to link it to the IR receiver.

Please see the manual supplied with your IR receiver for the type of cable necessary for the connection.

 If you want to link a Pioneer component to the IR receiver, see Operating other Pioneer components with this unit's sensor below to connect to the CONTROL jacks instead of the IR OUT jack.

# Operating other Pioneer components with this unit's sensor

Many Pioneer components have **SR CONTROL** jacks which can be used to link components together so that you can use just the remote sensor of one component. When you use a remote control, the control signal is passed along the chain to the appropriate component.<sup>2</sup>

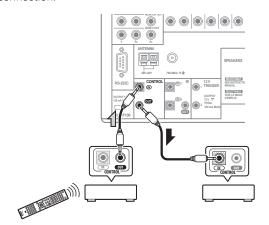
### Important 😧

• Note that if you use this feature, *make sure that you also have at least one set of analog audio, video or HDMI jacks connected* to another component for grounding purposes.

## 1 Decide which component you want to use the remote sensor of.

When you want to control any component in the chain, this is the remote sensor at which you'll point the corresponding remote control.

#### 2 Connect the CONTROL OUT jack of that component to the CONTROL IN jack of another Pioneer component. Use a cable with a mono mini-plug on each end for the connection.



Continue the chain in the same way for as many components as you have.

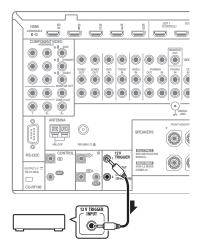
#### 🖉 Note

- Remote operation may not be possible if direct light from a strong fluorescent lamp is shining on the IR receiver remote sensor window.
   Note that other manufacturers may not use the IR terminology. Refer to the manual that came with your component to check for IR compatibility.
- If using two remote controls (at the same time), the IR receiver's remote sensor takes priority over the remote sensor on the front panel.
- 2 If you want to control all your components using this receiver's remote control, see Setting the remote to control other components on page 80 (SC-LX83)/page 93 (SC-LX73).

<sup>•</sup> If you have connected a remote control to the **CONTROL IN** jack (using a mini-plug cable), you won't be able to control this unit using the remote sensor.

# Switching components on and off using the 12 volt trigger

You can connect components in your system (such as a screen or projector) to this receiver so that they switch on or off using 12 volt triggers when you select an input function. However, you must specify which input functions switch on the trigger using the *The Input Setup menu* on page 44. Note that this will only work with components that have a standby mode.



## • Connect the 12 V TRIGGER jack of this receiver to the 12 V trigger of another component.

Use a cable with a mono mini-plug on each end for the connection.

After you've specified the input functions that will switch on the trigger, you'll be able to switch the component on or off just by pressing the input function(s) you've set on page 44.

It is also possible to have the component switch not when the input function is switched, but when **HDMI OUT** is switched. For details, see *HDMI Setup* on page 69.

### Plugging in the receiver

Only plug in after you have connected all your components to this receiver, including the speakers.

- 1 Plug the supplied power cord into the AC IN socket on the back of the receiver.
- 2 Plug the other end into a power outlet.<sup>1</sup>

### 

- Handle the power cord by the plug part. Do not pull out the plug by tugging the cord, and never touch the power cord when your hands are wet, as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, or other object on the power cord or pinch the cord in any other way. Never make a knot in the cord or tie it with other cables. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electric shock. Check the power cord once in a while. If you find it damaged, ask your nearest Pioneer authorized independent service company for a replacement.
- Do not use any power cord other than the one supplied with this unit.
- Do not use the supplied power cord for any purpose other than that described below.
- The receiver should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g., when on vacation.
- Make sure the blue **O STANDBY/ON** light has gone out before unplugging.
- If you have connected speakers with a 6  $\Omega$  impedance, change the impedance setting before turning on the power.

#### 🖉 Note

<sup>1</sup> After this receiver is connected to an AC outlet, a 2 second to 10 second HDMI initialization process begins. You cannot carry out any operations during this process. The **HDMI** indicator in the front panel display blinks during this process, and you can turn on this receiver once it has stopped blinking. When you set the **Control** with HDMI to **OFF**, you can skip this process. For details about the **Control** with HDMI feature, see *Control with HDMI function* on page 68.

## Chapter 4: Basic Setup

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **RECEIVER** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

# Changing the OSD display language (OSD Language)

The language used on the Graphical User Interface screen can be changed.

• The explanations in these operating instructions are for when English is selected for the GUI screen.

#### 1 Switch on the receiver and your TV.

Make sure that the TV's video input is set to this receiver (for example, if you connected this receiver to the **VIDEO** jacks on your TV, make sure that the **VIDEO** input is now selected).

### 2 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/(\leftarrow/\rightarrow)$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to exit the current menu.

#### 3 Select 'System Setup' from the Home Menu.

## 4 Select 'OSD Language' from the System Setup menu.

#### 5 Select the desired language.

#### 6 Select 'OK' to change the language.

The setting is completed and the **System Setup** menu reappears automatically.

# Automatically conducting optimum sound tuning (Full Auto MCACC)

The Full Auto MCACC Setup measures the acoustic characteristics of your listening area, taking into account ambient noise, speaker connection and speaker size, and tests for both channel delay and channel level. After you have set up the microphone provided with your system, the receiver uses the information from a series of test tones to optimize the speaker settings and equalization for your particular room.

*SC-LX83 only:* By performing the Full Auto MCACC Setup procedure, the frequency-phase characteristics of the connected speakers are also calibrated.

Once the Full Auto MCACC Setup procedure is completed, the Full Band Phase Control function is automatically turned on (page 60).

### 🔇 Important

- Make sure the microphone and speakers are not moved during the Full Auto MCACC Setup.
- Using the Full Auto MCACC Setup will overwrite any existing settings for the MCACC preset you select.
- Before using the Full Auto MCACC Setup, the headphones should be disconnected.

### 

• The test tones used in the Full Auto MCACC Setup are output at high volume.

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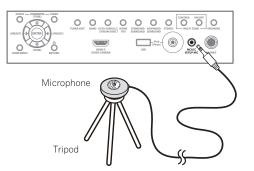
#### 1 Switch on the receiver and your TV.

Make sure that the TV's video input is set to this receiver.

## 2 Connect the microphone to the MCACC SETUP MIC jack on the front panel.

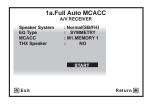
• Push down on the lower portion of the front panel door to access the **MCACC SETUP MIC** jack.

Make sure there are no obstacles between the speakers and the microphone.



If you have a tripod, use it to place the microphone so that it's about ear level at your normal listening position. If you do not have a tripod, use some other object to install the microphone.<sup>1</sup>

The Full Auto MCACC display appears once the microphone is connected.  $^{\rm 2}$ 



#### 3 Select the parameters you want to set.<sup>3</sup>

If the speakers are connected using any setup other than **Normal(SB/FH)**, be sure to set **Speaker System** before the Full Auto MCACC Setup. See *Speaker system setting* on page 111.

- Speaker System<sup>4</sup> Shows the current settings. When this is selected and ENTER is pressed, the speaker system selection screen appears. Select the proper speaker system, then press RETURN to return.
- **EQ Type** This determines how the frequency balance is adjusted.

- MCACC The six MCACC presets are used for storing surround sound settings for different listening positions. Simply choose an unused preset for now (you can rename it later in *Data Management* on page 108).
- THX Speaker Select YES if you are using THX speakers (set all speakers to SMALL), otherwise leave it set to NO.

## 4 Set the remote control to the receiver operation mode, then select START.

#### 5 Follow the instructions on-screen.

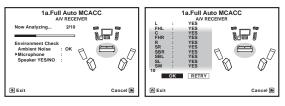
Make sure the microphone is connected, and if you're using a subwoofer, make sure it is switched on and set to a comfortable volume level.

## 6 Wait for the test tones to finish, then confirm the speaker configuration in the GUI screen.

A progress report is displayed on-screen while the receiver outputs test tones to determine the speakers present in your setup. Try to be as quiet as possible while it's doing this.

If no operations are performed for 10 seconds while the speaker configuration check screen is being displayed, the Full Auto MCACC Setup will resume automatically. In this case, you don't need to select '**OK**' and press **ENTER** in step 7.

• With error messages (such as **Too much ambient noise!** or **Check microphone.**), select **RETRY** after checking for ambient noise (see *Problems when using the Auto MCACC Setup* on page 44) and verifying the mic connection. If there doesn't seem to be a problem, you can simply select **GO NEXT** and continue.



The configuration shown on-screen should reflect the actual speakers you have.

#### 🔗 Note

- 1 Install the microphone on a stable floor. Placing the microphone on any of the following surfaces may make accurate measurement impossible:
  - Sofas or other soft surfaces.
- High places such as tabletops and sofa tops.
- 2 If you leave the GUI screen for over five minutes, the screen saver will appear.
- 3 When data measurement is taken, the reverb characteristics data (both before- and after-calibration) that this receiver had been storing will be overwritten. If you want to save the reverb characteristics data before measuring, connect a USB memory device to this receiver and transfer the data.

• When measurement is taken of the reverb characteristics data other than **SYMMETRY**, the data are not measured after the correction. If you will need to measure after correcting data, take the measurement using the EQ Professional menu in the Manual MCACC setup (page 102).

4 If you are planning on bi-amping your front speakers, or setting up a separate speaker system in another room, read through *Speaker system* setting on page 111 and make sure to connect your speakers as necessary before continuing to step 4.

- If you see an ERR message (or the speaker configuration displayed isn't correct), there may be a problem with the speaker connection.
   If selecting RETRY doesn't work, turn off the power and check the speaker connections. If there doesn't seem to be a problem, you can simply use ↑/↓ to select the speaker and ←/→ to change the setting and continue.
- If Reverse Phase is displayed, the speaker's wiring (+ and –) may be inverted. Check the speaker connections.<sup>1</sup>

– If the connections were wrong, turn off the power, disconnect the power cord, then reconnect properly. After this, perform the Full Auto MCACC procedure again.

– If the connections were right, select  $\ensuremath{\textbf{GONEXT}}$  and continue.

#### 7 Make sure 'OK' is selected, then press ENTER.

A progress report is displayed on-screen while the receiver outputs more test tones to determine the optimum receiver settings.

Again, try to be as quiet as possible while this is happening. It may take 3 to 10 minutes.

#### 8 The Full Auto MCACC Setup procedure is completed and the Home Menu menu reappears automatically.

Be sure to disconnect the microphone from this receiver upon completion of the Full Auto MCACC Setup.

The settings made in the Full Auto MCACC Setup should give you excellent surround sound from your system, but it is also possible to adjust these settings manually using *The Advanced MCACC menu* on page 100 or *The System Setup and Other Setup menus* on page 110.<sup>2</sup>

#### **Problems when using the Auto MCACC Setup**

If the room environment is not optimal for the Auto MCACC Setup (too much background noise, echo off the walls, obstacles blocking the speakers from the microphone) the final settings may be incorrect. Check for household appliances (air conditioner, fridge, fan, etc.), that may be affecting the environment and switch them off if necessary. If there are any instructions showing in the front panel display, please follow them.

• Some older TVs may interfere with the operation of the microphone. If this seems to be happening, switch off the TV when doing the Auto MCACC Setup.

### The Input Setup menu

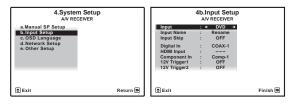
You only need to make settings in the **Input Setup** menu if you didn't hook up your digital equipment according to the default settings (see *Input function default and possible settings* on page 45). In this case, you need to tell the receiver what equipment is hooked up to which terminal so the buttons on the remote control correspond to the components you've connected.

## 1 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and ENTER to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

2 Select 'System Setup' from the Home Menu.

#### 3 Select 'Input Setup' from the System Setup menu.



#### 4 Select the input function that you want to set up.

The default names correspond with the names next to the terminals on the rear panel (such as **DVD** or **VIDEO**) which, in turn, correspond with the names on the remote control.

## 5 Select the input(s) to which you've connected your component.

For example, if your DVD player only has an optical output, you will need to change the **DVD** input function's **Digital In** setting from **COAX-1** (default) to the optical input you've connected it to. The numbering (**OPT-1** to **3**) corresponds with the numbers beside the inputs on the back of the receiver.

## 6 When you're finished, proceed to the settings for other inputs.

There are optional settings in addition to the assignment of the input jacks:

• Input Name – You can choose to rename the input function for easier identification. Select **Rename** to do so, or **Default** to return to the system default.

#### 🖉 Note

<sup>1</sup> If the speaker is not pointed to the microphone (listening position) or when using speakers that affect the phase (dipole speakers, reflective speakers, etc.), **Reverse Phase** may be displayed even if the speakers are properly connected.

<sup>2 •</sup> Depending on the characteristics of your room, sometimes identical speakers with cone sizes of around 12 cm will end up with different size settings. You can correct the setting manually using the *Manual speaker setup* on page 110.

<sup>•</sup> The subwoofer distance setting may be farther than the actual distance from the listening position. This setting should be accurate (taking delay and room characteristics into account) and generally does not need to be changed.

<sup>•</sup> If Full Auto MCACC Setup measurement results are incorrect due to the interaction of the speakers and viewing environment, we recommend adjusting the settings manually.

- Input Skip When set to ON, that input is skipped when selecting the input using INPUT SELECT. (DVD and other inputs can be still be selected directly with the input function buttons.)
- 12V Trigger1/2 After connecting a component to one of the 12 volt triggers (see Switching components on and off using the 12 volt trigger on page 41), select MAIN, ZONE 2, ZONE 3 or OFF for the corresponding trigger setting to switch it on automatically along with the (main or sub) zone specified.<sup>1</sup>

7 When you're finished, press RETURN. You will return to the System Setup menu.

#### Input function default and possible settings

The terminals on the receiver generally correspond to the name of one of the input functions. If you have connected components to this receiver differently from (or in addition to) the defaults below, see *The Input Setup menu* on page 44 to tell the receiver how you've connected up. The dots ( $\bullet$ ) indicate possible assignments.

Input	Input Terminals			
function	Digital	HDMI	Component	
DVD	COAX-1	●a	IN 1	
BD		( <b>BD</b> )		
TV/SAT	OPT-1	● <sup>a</sup>	٠	
DVR/BDR	OPT-2	● <sup>a</sup>	IN 2	
VIDEO	OPT-3	● <sup>a</sup>	IN 3	
HDMI 1	٠	(HDMI-1)		
HDMI 2		(HDMI-2)		
HDMI 3		(HDMI-3)		
HDMI 4		(HDMI-4)		
HDMI 5		(HDMI-5)		
(front panel)				
HOME MEDIA				
GALLERY <sup>b</sup>				
INTERNET				
RADIO <sup>c</sup>				
iPod/USB				
CD	COAX-2			
CD-R/TAPE	COAX-3 <sup>d</sup>			
TUNER				
ADAPTER PORT				
PHONO				
MULTI CH IN		● <sup>a</sup>		

a.With **Control** with HDMI set to **ON**, assignments cannot be made (see *Control with HDMI function* on page 68).

b.SC-LX83 only.

c.SC-LX73 only.

d.SC-LX83 only. ● (assignment possible) for the SC-LX73.

🖉 Note

Devices connected to 12 volt triggers can be associated with HDMI OUT switching. For details, see HDMI Setup on page 69.

## <sup>Chapter 5:</sup> Basic playback

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to **RECEIVER**. For the SC-LX73's remote

control, press the **<u>RECEIVER</u>** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

### **Playing a source**

Here are the basic instructions for playing a source (such as a DVD disc) with your home theater system.

#### 1 Switch on your system components and receiver.

Make sure that the TV's video input is set to this receiver.

#### 3 Select the input function you want to play.

You can use the input function buttons on the remote control, **INPUT SELECT**, or the front panel **INPUT SELECTOR** dial.<sup>1</sup>

#### 4 Press AUTO/ALC/DIRECT (AUTO SURR/ALC/ STREAM DIRECT) to select 'AUTO SURROUND' and start playback of the source.<sup>2</sup>

If you're playing a Dolby Digital or DTS surround sound source, you should hear surround sound. If you are playing a stereo source, you will only hear sound from the front left/right speakers in the default listening mode.

• See also *Listening to your system* on page 56 for information on different ways of listening to sources.

It is possible to check on the front panel display whether or not multi-channel playback is being performed properly. For details, see *Auto Surround, ALC and Stream Direct with different input signal formats* on page 133.

When using a surround back speaker, **DCID+PLIIX MOVIE** is displayed when playing Dolby Digital signals, and **DTS+Neo:6** is displayed when playing DTS 5.1channel signals. If the display does not correspond to the input signal and listening mode, check the connections and settings.

#### 5 Use the volume control to adjust the volume level.

Turn down the volume of your TV so that all sound is coming from the speakers connected to this receiver.

#### Playing a source with HDMI connection

• Set the remote control to the receiver operation mode, then use INPUT SELECT to select the HDMI input you've connected to (for example, HDMI 1).

You can also perform the same operation by using the **INPUT SELECTOR** dial on the front panel or by pressing **HDMI** on the remote control repeatedly.

- Set the HDMI parameter in Setting the Audio options on page 72 to THROUGH if you want to hear HDMI audio output from your TV (no sound will be heard from this receiver).
- If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, use an analog video connection.

#### Selecting the multichannel analog inputs

If you have connected a decoder or a DVD player as above, you must select the analog multichannel inputs for surround sound playback.<sup>3</sup>

## 1 Make sure you have set the playback source to the proper output setting.

For example, you might need to set your DVD player to output multichannel analog audio.

#### 2 Set the remote control to the receiver operation mode, then use INPUT SELECT to select MULTI CH IN. You can also use the INPUT SELECTOR dial on the front panel.

• Depending on the DVD player you're using, the analog output level of the subwoofer channel may be too low. In this case, the output level of the subwoofer can be increased by 10 dB in the **Multi Ch In Setup** in **Other Setup**. For details, see *Multi Channel Input Setup* on page 116.

#### 🖉 Note

1 If you need to manually switch the input signal type press SIGNAL SEL (page 59).

 <sup>2</sup> You may need to check the digital audio output settings on your DVD player or digital satellite receiver. It should be set to output Dolby Digital, DTS and 88.2 kHz / 96 kHz PCM (2 channel) audio, and if there is an MPEG audio option, set this to convert the MPEG audio to PCM.
 3 When playback from the multichannel inputs is selected, only the volume and channel levels can be set.

<sup>•</sup> When playback from the municipalities in playback from the multiphanoal inputs

You can't listen to your speaker B system during playback from the multichannel inputs.
 With MULTICH IN inputs, it is possible to play pictures simultaneously. For details, see MultiCh

### Playing an iPod

This receiver has the **iPod/iPhone/USB** terminal that will allow you to control playback of audio content from your iPod using the controls of this receiver.<sup>1</sup>

#### 1 Switch on the receiver and your TV.

See Connecting an iPod on page 38.

• It is also possible to operate the iPod on the iPod itself, without using the TV screen. For details, see *Switching the iPod controls* on page 48.

## 2 $\ensuremath{\textit{SC-LX83}}$ only: Set the remote control operation selector switch to SOURCE.

## 3 Press iPod USB on the remote control to switch the receiver to the iPod/USB.

**Loading** appears in the GUI screen while the receiver verifies the connection and retrieves data from the iPod. When the display shows the **iPod** top menu you're ready to play music from the iPod.<sup>2</sup>

#### Playing back audio files stored on an iPod

To navigate songs on your iPod, you can take advantage of the GUI screen of your TV connected to this receiver.<sup>3</sup> You can also control all operations for music in the front panel display of this receiver.

#### Finding what you want to play

When your iPod is connected to this receiver, you can browse songs stored on your iPod by playlist, artist name, album name, song name, genre or composer, similar to using your iPod directly.

#### 1 Use $\uparrow/\downarrow$ to select 'Music' from the iPod top menu.

- 2 Use  $\uparrow/\downarrow$  to select a category, then press ENTER to browse that category.
  - To return to the previous level any time, press **RETURN**.

## 3 Use ↑/↓ to browse the selected category (e.g., albums).

Use ←/→ to move to previous/next levels.

#### 🔗 Note

- This system is compatible with the audio and video of the iPod nano (audio only for the iPod nano 1G), iPod fifth generation (audio only), iPod classic, iPod touch and iPhone. However, some of the functions may be restricted for some models. The system is not compatible with the iPod shuffle.
- Compatibility may vary depending on the software version of your iPod and iPhone. Please be sure to use the latest available software version.
- iPod and iPhone are licensed for reproduction of non-copyrighted materials or materials the user is legally permitted to reproduce.
- Features such as the equalizer cannot be controlled using this receiver, and we recommend switching the equalizer off before connecting.
  Pioneer cannot under any circumstances accept responsibility for any direct or indirect loss arising from any inconvenience or loss of recorded material resulting from the iPod failure.

When listening to a track on the iPod in the main zone, it is possible to control the sub zone, but not to listen to a different track in the sub zone from the one playing in the main zone.

- 2 The controls of your iPod will be inoperable when connected to this receiver.
- 3 Note that characters that cannot be displayed on this receiver are displayed as #.
- This feature is not available for photos on your iPod. To display photos, switch iPod operation to the iPod (see *Switching the iPod controls* on page 48).
- 4 During Audiobook playback, press ↑/↓ to switch the playback speed: Faster ↔ Normal ↔ Slower

## 4 Continue browsing until you arrive at what you want to play, then press ► to start playback.

### 🗘 Тір

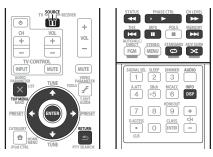
• You can play all of the songs in a particular category by selecting the **All** item at the top of each category list. For example, you can play all the songs by a particular artist.

#### **Basic playback controls**

This receiver's remote control buttons can be used for basic playback of files stored on an iPod.<sup>4</sup>

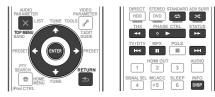
SC-LX83:

• Set the remote control operation selector switch to **SOURCE**, then press **iPod USB** to switch the remote control to the iPod/USB operation mode.



SC-LX73:

 Press iPod USB to switch the remote control to the iPod/USB operation mode.



#### Switching the iPod controls<sup>1</sup>

You can switch over the iPod controls between the iPod and the receiver.

#### 1 Press iPod CTRL to switch the iPod controls.

This enables operation and display on your iPod, and this receiver's remote control and GUI screen become inactive.

### 2 Press iPod CTRL again to switch back to the receiver controls.

#### Playing a USB device

It is possible to play files<sup>2</sup> using the USB interface on the front of this receiver.

#### 1 Switch on the receiver and your TV.

See Connecting a USB device on page 39.<sup>3</sup>

### 2 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

## 3 Press iPod USB on the remote control to switch the receiver to the iPod/USB.<sup>4</sup>

**Loading** appears in the GUI screen as this receiver starts recognizing the USB device connected. When the display shows the **USB Top** menu you're ready to play from the USB device.

### Important

If an **Over Current** message lights in the display, the power requirements of the USB device are too high for this receiver. Try following the points below:

- Switch the receiver off, then on again.
- Reconnect the USB device with the receiver switched off.
- Use a dedicated AC adapter (supplied with the device) for USB power.

If this doesn't remedy the problem, it is likely your USB device is incompatible.

#### Playing back audio files stored on a USB memory device

The maximum number of levels that you can select in Step 2 (below) is 8. Also, you can display and play back up to 30 000 folders and files within a USB memory device.  $^5$ 

1 Use  $\uparrow/\downarrow$  to select 'Music' from the USB Top menu.

### 2 Use $\uparrow/\downarrow$ to select a folder, then press ENTER to browse that folder.

• To return to the previous level any time, press **RETURN**.

#### 🖉 Note

3 Make sure the receiver is in standby when disconnecting the USB device.

<sup>1</sup> You cannot use this function, when an iPod of fifth generation or iPod nano of first generation is connected.

<sup>2 •</sup> Compatible USB devices include external magnetic hard drives, portable flash memory drives (particularly key drives) and digital audio players (MP3 players) of format FAT16/32.

<sup>•</sup> Pioneer cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this receiver.

<sup>4</sup> *SC-LX73 only:* The iPod/USB function cannot be selected in the main zone when the Internet radio function is selected in the sub zone. Also, the iPod/USB function cannot be selected in the sub zone when the Internet radio function is selected in the main zone.

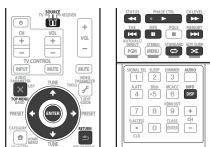
<sup>5</sup> Note that non-Roman characters in the playlist are displayed as #.

## 3 Continue browsing until you arrive at what you want to play, then press ► to start playback.<sup>1</sup>

#### **Basic playback controls**

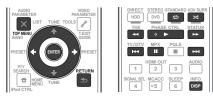
This receiver's remote control buttons can be used for basic playback of files stored on USB memory devices. *SC-IX83*:

• Set the remote control operation selector switch to **SOURCE**, then press **iPod USB** to switch the remote control to the iPod/USB operation mode.



#### SC-LX73:

• Press **iPod USB** to switch the remote control to the iPod/USB operation mode.



## Playing back photo files stored on a USB memory device<sup>2</sup>

1 Use  $\Uparrow/\clubsuit$  to select 'Photos' from the USB Top menu.

## 2 Use $\uparrow/\downarrow$ to select a folder, then press ENTER to browse that folder.

• To return to the previous level any time, press RETURN.

## 3 Continue browsing until you arrive at what you want to play, then press ► to start playback.<sup>3</sup>

The selected content is displayed in full screen and a slideshow starts.

After a slideshow launches, pressing **ENTER** toggles between play and pause (only when **Theme** on the Slideshow Setup is set to **Normal (OFF)**).

#### **Basic playback controls**

Button(s)	What it does
ENTER, ►	Starts displaying a photo and playing a slideshow.
RETURN, ←	Stops the player and returns to the previous menu.
I⊲⊲ª	Displays the previous photo content.
►►I <sup>a</sup>	Displays the next photo content.
<b>II</b> <sup>a</sup>	Pauses/unpauses the slideshow.
DISP <sup>a</sup>	Displays the photo information.

a. You can only use this button when  $\ensuremath{\text{Theme}}$  on the Slideshow Setup is set to  $\ensuremath{\text{Normal}}$  (OFF)

#### **Slideshow Setup**

Make the various settings for playing slideshows of photo files here.

## 1 Use ↑/↓ to select 'Slideshow Setup' from the USB Top menu.

#### 2 Select the setting you want.

- Theme Add various effects to the slideshow.
- **Interval** Set the interval for switching the photos. This may not be available depending on the **Theme** setting.
- **BGM** Play music files stored on the USB device while displaying photos.
- Music Select Select the folder containing the music files to be played when **BGM** is set to **ON**.

#### 3 When you're finished, press RETURN.

You will return to the **USB Top** menu.

#### 🔗 Note

- 1 Copyrighted audio files cannot be played back on this receiver.
- DRM-protected audio files cannot be played back on this receiver.
- 2 Photo files cannot be played in the sub zone.
- 3 If the slideshow is left in the pause mode for five minutes, the list screen reappears.

#### About playable file formats

The USB function of this receiver supports the following file formats. Note that some file formats are not available for playback although they are listed as playable file formats.

#### **Music files**

Category	Extension	Stream		
MP3 <sup>a</sup>	.mp3	MPEG-1, 2, 2.5 Audio Layer-3	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	8 kbps to 320 kbps
			VBR/CBR	Supported/Supported
WAV	.wav	LPCM	Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
			Quantization bitrate	8 bit, 16 bit
			Channel	2 ch, Monaural
WMA	.wma	WMA8/9 <sup>b</sup>	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	8 kbps to 320 kbps
			VBR/CBR	Supported/Supported

a. "MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia."

b. Files encoded using Windows Media Codec 9 may be playable but some parts of the specification are not supported; specifically, Pro, Lossless, Voice.

#### **Photo files**

Category	Extension		
JPEG	.jpg	Format	Meeting the following conditions: • Baseline JPEG format (including files recorded in Exif/DCF format)
	.jpeg .jpe		Y:Cb:Cr - 4:4:4, 4:2:2 or 4:2:0
	.jif .jfif	Resolution	30 to 8184 pixels vertical, 40 to 8184 pixels horizontal

### Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. If you already know the frequency of the station you want, see *Tuning directly to a station* below. Once you are tuned to a station you can memorize the frequency for recall later—see *Saving station presets* below for more on how to do this.

1 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

2 Press TUNER to select the tuner.

## 3 Use BAND to change the band (FM or AM), if necessary.

#### 4 Tune to a station.

There are three ways to do this:

**Automatic tuning** – To search for stations in the currently selected band, press and hold **TUNE** ↑/↓ for about a second. The receiver will start searching for the next station, stopping when it has found one. Repeat to search for other stations.

**Manual tuning** – To change the frequency one step at a time, press **TUNE**  $\uparrow$ .

**High speed tuning** – Press and hold **TUNE** ↑/↓ for high speed tuning. Release the button at the frequency you want.

#### **Improving FM sound**

If the **TUNED** or **STEREO** indicator doesn't light when tuning to an FM station because the signal is weak, press **MPX** to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

#### Using the noise cut mode

The two noise cut modes can be used when receiving AM broadcasts. Press **MPX** to select the noise cut mode (1 to 2).

#### **Using Neural Surround**

This feature uses Neural Surround<sup>™</sup> technologies to achieve optimal surround sound from FM radio.

• While listening to FM radio, press **AUTO/ALC/ DIRECT** for Neural Surround.

The **Neural Surround** mode can be selected also with **STANDARD**.

#### Tuning directly to a station

1 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

2 Press TUNER to select the tuner.

3 Use BAND to change the band (FM or AM), if necessary.

4 Press D.ACCESS (Direct Access).

## 5 Use the number buttons to enter the frequency of the radio station.

For example, to tune to **106.00** (FM), press **1**, **0**, **6**, **0**, **0**.

If you make a mistake halfway through, press **D.ACCESS** twice to cancel the frequency and start over.

#### **Saving station presets**

If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This receiver can memorize up to 63 stations, stored in seven banks, or classes (A to G) of 9 stations each.

#### 1 Tune to a station you want to memorize.

See Listening to the radio above for more on this.

#### 2 Press T.EDIT (TUNER EDIT).

The display shows **PRESET MEMORY**, then a blinking memory class.

# 3 Press CLASS to select one of the seven classes, then press PRESET ←/→ to select the station preset you want.

You can also use the number buttons to select a station preset.

#### 4 Press ENTER.

After pressing **ENTER**, the preset class and number stop blinking and the receiver stores the station.

#### Listening to station presets

1 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

2 Press TUNER to select the tuner.

## **3** Press CLASS to select the class in which the station is stored.

Press repeatedly to cycle through classes A to G.

## 4 Press PRESET $\leftarrow / \rightarrow$ to select the station preset you want.

• You can also use the number buttons on the remote control to recall the station preset.

#### Naming station presets

For easier identification, you can name your station presets.

#### 1 Choose the station preset you want to name.

See Listening to station presets on page 51 for how to do this.

#### 2 Press T.EDIT (TUNER EDIT).

The display shows **PRESET NAME**, then a blinking cursor at the first character position.

#### 3 Input the name you want.

Use  $\uparrow/\downarrow$  to select a character,  $\leftarrow/\rightarrow$  to set the position, and **ENTER** to confirm your selection.

### 🚺 Тір

- To erase a station name, simply repeat steps 1 to 3 and input eight spaces instead of a name.
- Once you have named a station preset, you can press **DISP** when listening to a station to switch the display between name and frequency.

#### An introduction to RDS

Radio Data System (RDS) is a system used by most FM radio stations to provide listeners with various kinds of information—the name of the station and the kind of show they're broadcasting, for example.

One feature of RDS is that you can search by type of program. For example, you can search for a station that's broadcasting a show with the program type, **JAZZ**.

You can search the following program types:<sup>1</sup>

NEWS - News FINANCE - Stock market reports, AFFAIRS – Current Affairs commerce, trading, etc. INFO - General Information CHILDREN - Programs for SPORT - Sport children **EDUCATE** – Educational SOCIAL - Social affairs DRAMA - Radio plays, etc. **RELIGION** – Programs CULTURE - National or regional concerning religion culture, theater, etc. **PHONE IN** – Public expressing SCIENCE - Science and their views by phone technology TRAVEL - Holiday-type travel VARIED – Usually talk-based rather than traffic material, such as quiz shows or announcements LEISURE - Leisure interests and interviews. POP M - Pop music hobbies ROCK M - Rock music JA77 - Jazz EASY M - Easy listening **COUNTRY** – Country music LIGHT M - 'Light' classical music NATION M - Popular music in a CLASSICS - 'Serious' classical language other than English music OLDIES - Popular music from the OTHER M – Music not fitting '50s and '60s FOLK M – Folk music above categories WEATHER - Weather reports DOCUMENT - Documentary

#### Searching for RDS programs

One of the most useful features of RDS is the ability to search for a particular kind of radio program. You can search for any of the program types listed above.

1 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

#### 2 Press TUNER to select the FM band.<sup>2</sup>

4 Press PRESET ←/→ to select the program type you want to hear.

#### 5 Press ENTER to search for the program type.

The system starts searching through all frequencies for a match. When it finds one, the search stops and the station plays for five seconds.

#### 6 If you want to keep listening to the station, press ENTER within the five seconds.

If you don't press **ENTER**, searching resumes.

If **NO PTY** is displayed it means the tuner couldn't find that program type at the time of the search.<sup>3</sup>

#### 🖉 Note

2 RDS is only possible in the FM band.

<sup>1</sup> In addition, there are two other program types, **TEST** and **NONE**. You can't search for these.

<sup>3</sup> RDS searches all frequencies. If the program type could not be found among all the frequencies, NO PTY is displayed.

#### **Displaying RDS information**

Use the **DISP** button to display the different types of RDS information available.<sup>1</sup>

#### • Press DISP for RDS information.

Each press changes the display as follows:

- Radio Text (RT) Messages sent by the radio station. For example, a talk radio station may provide a phone number as RT.
- Program Service Name (**PS**) The name of the radio station.
- Program Type (PTY) This indicates the kind of program currently being broadcast.
- Current tuner frequency.

### Listening to Internet radio stations

(SC-LX73 only)

### 🗘 Тір

 This section describes how to listen to Internet radio on the SC-LX73. On the SC-LX83, Internet radio is operated with Home Media Gallery. For details, see *Playback with HOME MEDIA GALLERY inputs (SC-LX83* only) on page 61.

Internet radio is an audio broadcasting service transmitted via the Internet.<sup>2</sup> There are a large number of Internet radio stations broadcasting a variety of services from every corner of the world. Some are hosted, managed, and broadcast by private individuals while others are by the corresponding traditional terrestrial radio stations or radio networks. Whereas terrestrial, or OTA (over-the-air), radio stations are geographically restricted on the range of radio waves broadcast from a transmitter through the air, Internet radio stations are accessible from anywhere in the world, as long as there is a connection to the Internet, as services are not transmitted through the air but are delivered over the World Wide Web. On this receiver you can select Internet radio stations by genre as well as by region.

### 😧 Important

• Before listening to Internet radio, you need to program the Internet radio stations you wish to listen to onto this unit. See *Programming the Internet radio stations* below for how to program. Though the Internet radio stations are programmed in this receiver before it leaves the factory, the link may have expired. In that case, preset the stations again yourself.

## 1 Press NET RADIO to switch to the Internet radio input.<sup>3</sup>

The Internet Radio list screen is displayed.

### 2 Use ↑/↓ to select the Internet radio station to play back, and then press ENTER.

Press  $\uparrow/\downarrow$  to scroll up and down the list and select the desired item. When you press **ENTER**, playback starts with the playback screen being displayed for the selected item. Depending on the Internet line conditions, the sound may not be smooth when playing Internet radio.

To return to the list screen, press **RETURN**.<sup>4</sup>

#### Programming the Internet radio stations

By programming the Internet radio stations you wish to listen to onto this receiver, you will be able to select those Internet radio stations. You can program up to 24 stations.

There are two methods of programming: one lets you use the GUI screen on this receiver; the other lets you connect your computer and use that screen.

#### Programming with the GUI screen

## 1 Press TOP MENU when the Internet Radio station list is displayed.

The Internet Radio Setup screen is displayed.

### 2 Use $\uparrow/\downarrow$ to select the Internet Radio station list screen you wish to edit, and then press ENTER.

#### B Use ←/→ to select "Edit".

• If you select **"Delete"**, information regarding the Internet radio stations programmed into the currently selected memory will be deleted.

#### 🔗 Note

- If any noise is picked up while displaying the RT scroll, some characters may be displayed incorrectly.
- If you see NO RT DATA in the RT display, it means no RT data is sent from the broadcast station.
- If you see NO PS DATA in the PS display, it means no PS data can be received.
- If you see NO PTY DATA in the PTY display, it means no PTY data can be received.

2 • To listen to Internet radio stations, you must have high-speed broadband Internet access. With a 56 K or ISDN modem, you may not enjoy the full benefits of Internet radio.

- To listen to Internet radio stations, you must sign a contract with an ISP (Internet Service Provider) beforehand.
- The port number varies depending on the Internet radio station. Check the firewall settings.
- Broadcasts may be stopped or interrupted depending on the Internet radio station. In this case, you cannot listen to a radio station selected from the list of Internet radio stations.
- 3 The Internet radio function cannot be selected in the main zone when the iPod/USB function is selected in the sub zone. Also, the Internet radio function cannot be selected in the sub zone when the iPod/USB function is selected in the main zone.

<sup>4</sup> When the list screen is displayed from the playback screen, the playback screen reappears automatically if no operation is performed for 10 seconds while the list screen is displayed.

## 4 Enter the URL of the Internet radio station you wish to program.<sup>1</sup>

Use  $\uparrow/\downarrow$  to select a letter and  $\leftarrow/\rightarrow$  to move the cursor.

• A URL containing up to 192 letters can be entered.

#### 5 Enter the title of the Internet radio station.

- Use  $\uparrow/\downarrow$  to select a letter and  $\leftarrow/\rightarrow$  to move the cursor.
- A title containing up to 22 letters can be entered.

#### Programming on the computer screen

You can enter the Internet radio list on the screen of a computer that is connected to the same LAN as this receiver, and send the list to this unit.

The computer needs to be connected in advance to the network of this receiver and set up.

### 1 Turn on the computer and launch the Internet browser.

## 2 In the address bar on the browser, enter the IP address assigned to this receiver.

For example, if the IP address of this receiver is "192.168.0.2", enter "http://192.168.0.2/".

When the connection is made with the receiver, a Top Menu will be displayed.

• This receiver's IP address can be found in the 'IP address, Proxy' menu (page 113).

#### 3 Select 'Internet Radio Setting'.

The following programming screen will be shown on the browser.

Pioneer	- A De die Oettie e	Top Menu
Intern	et Radio Setting	
	J-POP http://www.xxxxxxx.net:9500	Update Connection OK
2 Title URL		Update
<sup>3</sup> URL	Rock http://www.xxxxxx.com:8096	Update
	Classic http://www.yyyyyyy.com:8800	Update
<sup>5</sup> URL	STATIONS	Update
	http://zzzzzz.com:7040	Update
7 URL	ENKA	Update
8		

## 4 Enter the title and URL of the Internet radio station you wish to program, then press 'Update'.

The entered information will be transmitted to the receiver.

The connection to the URL designated from the computer will be confirmed:

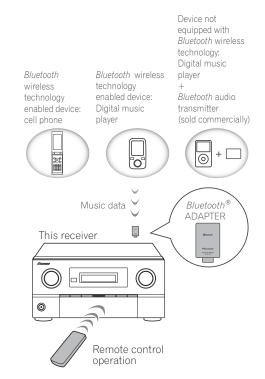
If connection is successful, '**Connection OK**' will be displayed on screen, and the selected Internet radio station will begin playing via this receiver.

If the connection failed, '**Connection NG**' will be displayed. Check to see if the URL you entered is correct.

### lmportant 🕑

- 'Connection OK' and 'Connection NG' are only displayed when this receiver is set to the Internet radio function.
- When entering the title and URL of Internet radio station, do not press 'Update' while you are connected to other stations (i.e., labelled as "Connecting...").

# **Bluetooth** ADAPTER for Wireless Enjoyment of Music



#### Wireless music play

When the *Bluetooth* ADAPTER (AS-BT100) is connected to this unit, a product equipped with *Bluetooth* wireless technology (portable cell phone, digital music player, etc.) can be used to listen to music wirelessly. Also, by using a commercially available transmitter supporting *Bluetooth* wireless technology, you can listen to music on a device not equipped with *Bluetooth* wireless technology. The AS-BT100 model supports SCMS-T contents protection, so music can also be enjoyed on devices equipped with SCMS-T type *Bluetooth* wireless technology.

The URL can also be entered by connecting a USB keyboard (see Connecting a USB device on page 39).

#### **Remote control operation**

The remote control supplied with this unit allows you to play and stop media, and perform other operations.<sup>1</sup>

## Pairing the *Bluetooth* ADAPTER and *Bluetooth* wireless technology device

"Pairing" must be done before you start playback of *Bluetooth* wireless technology content using the *Bluetooth* ADAPTER. Make sure to perform pairing the first time you operate the system or any time pairing data is cleared. The pairing step is necessary to register the *Bluetooth* wireless technology device to enable *Bluetooth* communications.<sup>2</sup> For more details, see also the operating instructions of your *Bluetooth* wireless technology device.

### 1 Set the remote control to the receiver operation mode, then press HOME MENU.

- 2 Select 'System Setup', then press ENTER.
- 3 Select 'Other Setup', then press ENTER.

### 4 Select 'Pairing Bluetooth Device', then press ENTER.

#### 5 Select the 'Passcode' setting you want.

Select the same passcode as the *Bluetooth* wireless technology device you wish to connect.

- 0000/1234/8888 Select the passcode from these options. These are the passcodes that can be used in most cases.
- Others Select to use a passcode other than those mentioned above.

# 6 If you selected Others in step 5, enter the passcode. Use ↑/↓ to select a number and ←/→ to move the cursor.

# 7 Follow the instructions displayed on the GUI screen to conduct pairing with the *Bluetooth* wireless technology device.

Switch on the *Bluetooth* wireless technology device that you want to make pair, place it near the receiver and set it to the pairing mode.

#### 8 Check to see that the *Bluetooth* ADAPTER is detected by the *Bluetooth* wireless technology device. When the Bluetooth wireless technology device is connected:

**CONNECTED** appears in the receiver display.<sup>3</sup>

#### 🔗 Note

- It must be necessary that the *Bluetooth* wireless technology enabled device supports AVRCP profiles.
- Remote control operations cannot be guaranteed for all Bluetooth wireless technology enabled devices.
- 2 Pairing is required when you first use the *Bluetooth* wireless technology device and *Bluetooth* ADAPTER.
- To enable Bluetooth communication, pairing should be done with both your system and Bluetooth wireless technology device.
- 3 The system can display alphanumeric characters only. Other characters may not be displayed correctly.
- 4 The passcode may in some cases be referred to as PASSKEY or PIN code.
- 5 When the Bluetooth ADAPTER is not plugged into the ADAPTER PORT, NO ADAPTER will be displayed if ADAPTER PORT input is selected.
- Bluetooth wireless technology device should be compatible with AVRCP profile.
- Depending on the Bluetooth wireless technology device you use, operation may differ from what is shown in the remote control buttons.

### When the Bluetooth wireless technology device is not connected:

Go back to the passcode setting in step 5. In this case, perform the connection operation from the *Bluetooth* wireless technology device.

9 From the *Bluetooth* wireless technology device list, select *Bluetooth* ADAPTER and enter the Passcode selected in step 5.<sup>4</sup>

## Listening to music contents of a *Bluetooth* wireless technology device with your system

1 SC-LX83 only: Set the remote control operation selector switch to SOURCE.

2 Press ADAPTER on the remote control to switch the receiver to ADAPTER PORT input.<sup>5</sup>

3 From the *Bluetooth* wireless technology device, perform the operation to connect to the *Bluetooth* ADAPTER.

## 4 Start playback of music contents stored on the *Bluetooth* wireless technology device.

This receiver's remote control buttons can be used for basic playback of files stored on *Bluetooth* wireless technology devices.<sup>6</sup>

SC-LX83:



SC-LX73:



The *Bluetooth*<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Pioneer Corporation is under license. Other trademarks and trade names are those of their respective owners.

## Chapter 6: Listening to your system

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **RECEIVER** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

• The listening modes and many features described in this section may not be available depending on the current source, settings and status of the receiver.

### Auto playback

There are many ways to listen back to sources using this receiver, but the simplest, most direct listening option is the Auto Surround feature. The receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.

## $\label{eq:control} \mbox{ Set the remote control to the receiver operation mode.}$

#### 2 While listening to a source, press AUTO/ALC/ DIRECT (AUTO SURR/ALC/STREAM DIRECT) for auto playback of a source.

**AUTO SURROUND** shows briefly in the display before showing the decoding or playback format. Check the digital format indicators in the front panel display to see how the source is being processed.

- If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.
- When listening to the FM radio, the Neural Surround feature is selected automatically (see *Using Neural Surround* on page 51 for more on this).
- When listening to the ADAPTER PORT input, the SOUND RETRIEVER AIR feature is selected automatically (see *Listening in stereo* on page 58 for more on this).

**ALC** – In the Auto level control (**ALC**) mode, this receiver equalizes playback sound levels.

**OPTIMUM SURR** (*SC-LX83 only*) – In the Optimum Surround mode, this receiver automatically optimizes sound balance in each scene based on actually set volume. The sound balancer controls three major theater sound elements dialogue, bass and surround with original algorithm.

### 🗘 Tip

• When **ALC** is selected, the effect level can be adjusted using the **EFFECT** parameter in *Setting the Audio options* on page 72.

### Listening in surround sound

Using this receiver, you can listen to any source in surround sound. However, the options available will depend on your speaker setup and the type of source you're listening to.

#### Standard surround sound

The following modes provide basic surround sound for stereo and multichannel sources.

## $\label{eq:control} 1 \quad \text{Set the remote control to the receiver operation} \\ \text{mode.}$

## 2 While listening to a source, press STANDARD (STANDARD SURROUND).

If necessary, press repeatedly to select a listening mode.

 If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.<sup>1</sup>

*With two channel sources*, you can select from:

- DD Pro Logic IIx MOVIE Up to 7.1 channel sound (surround back), especially suited to movie sources
- DD Pro Logic IIx MUSIC Up to 7.1 channel sound (surround back), especially suited to music sources<sup>2</sup>
- DD Pro Logic IIx GAME Up to 7.1 channel sound (surround back), especially suited to video games
- DI PRO LOGIC 4.1 channel surround sound (sound from the surround speakers is mono)

#### 🖉 Note

<sup>1</sup> If the surround back speakers are not connected or V.SB is switched OFF (page 72), DD Pro Logic IIx becomes DD Pro Logic II (5.1 channel sound).

<sup>2</sup> When listening to 2-channel sources in Dolby Pro Logic IIx Music mode, there are three further parameters you can adjust: **C.WIDTH**, **DIMENSION** and **PANORAMA**. See *Setting the Audio options* on page 72 to adjust them.

- DD Pro Logic IIz HEIGHT Up to 7.1 channel sound (front height)<sup>1</sup>
- WIDE SURROUND MOVIE Up to 7.1 channel sound (front wide), especially suited to movie sources<sup>2</sup>
- WIDE SURROUND MUSIC Up to 7.1 channel sound (front wide), especially suited to music sources<sup>2</sup>
- Neo:6 CINEMA 7.1 channel sound (surround back), especially suited to movie sources<sup>3</sup>
- Neo:6 MUSIC 7.1 channel sound (surround back), especially suited to music sources<sup>3</sup>
- Neural Surround Up to 7.1 channel sound (surround back), especially suited to music sources<sup>4</sup>

With multichannel sources, if you have connected surround back, front height or front wide speakers, you can select (according to format):

- DD Pro Logic IIx MOVIE See above
- DD Pro Logic IIx MUSIC See above
- **Dolby Digital EX** Creates surround back channel sound for 5.1 channel sources and provides pure decoding for 6.1 channel sources (like Dolby Digital Surround EX)
- **DTS-ES** Allows you to hear 6.1 channel playback with DTS-ES encoded sources
- DTS Neo:6 Allows you to hear 6.1 channel playback with DTS encoded sources
- DD Pro Logic IIz HEIGHT See above<sup>1</sup>
- WIDE SURROUND MOVIE See above<sup>2</sup>
- WIDE SURROUND MUSIC See above<sup>2</sup>
- Straight Decode Plays back without the effects above.

#### Using the Home THX modes

THX and Home THX are technical standards created by THX Ltd. for cinema and home theater sound. Home THX is designed to make home theater audio sound more like what you hear in a cinema.

Different THX options will be available depending on the source and the setting for surround back channel processing (see *THX Audio Setting* on page 113 for more on this).

## 1 Set the remote control to the receiver operation mode.

• **Press THX (HOME THX) to select a listening mode.** *With two channel sources*, press **THX** repeatedly to select a matrix-decoding process for the **THX CINEMA** mode (see *THX Audio Setting* on page 113 for an explanation of each process):

- THX CINEMA
- THX MUSIC
- THX GAMES
- D Pro Logic IIx MOVIE+THX CINEMA
- D PRO LOGIC+THX CINEMA
- Neo:6 CINEMA+THX CINEMA
- D Pro Logic IIx MUSIC+THX MUSIC
- Neo:6 MUSIC+THX MUSIC
- DI Pro Logic IIx GAME+THX GAMES
- DD Pro Logic IIz HEIGHT+THX CINEMA<sup>1</sup>
- DD Pro Logic IIz HEIGHT+THX MUSIC<sup>1</sup>
- DD Pro Logic IIz HEIGHT+THX GAMES<sup>1</sup>
- THX ULTRA2/SELECT2 GAMES<sup>5</sup>

*With multichannel sources*, press **THX (HOME THX)** repeatedly to select from:

- THX CINEMA
- THX MUSIC
- THX GAMES
- THX Surround EX Allows you to hear 6.1 or 7.1 channel playback with 5.1 channel sources
- Neo:6 CINEMA+THX CINEMA
- DD Pro Logic IIx MOVIE+THX CINEMA
- THX ULTRA2/SELECT2 CINEMA<sup>5</sup> Allows you to hear 7.1 channel playback with 5.1 channel sources
- D Pro Logic IIx MUSIC+THX MUSIC
- DD Pro Logic IIz HEIGHT+THX CINEMA<sup>1</sup>
- DD Pro Logic IIz HEIGHT+THX MUSIC<sup>1</sup>
- DI Pro Logic IIz HEIGHT+THX GAMES<sup>1</sup>
- THX ULTRA2/SELECT2 MUSIC<sup>5</sup> This mode is suited not only for sources recorded in Dolby Digital and DTS, but also to all multi-channel music sources (DVD-Audio, etc.).
- **THX ULTRA2/SELECT2 GAMES**<sup>5</sup> This mode is suited to playing the sound of games.

#### 🔗 Note

- 1 This mode can only be selected when Speaker System is set to Normal(SB/FH).
- When listening sources in DD Pro Logic IIz HEIGHT mode, you can also adjust the H.GAIN effect (see Setting the Audio options on page 72).
- 2 This mode can only be selected when Speaker System is set to Normal(SB/FW).

- 5 ULTRA2 for the SC-LX83, SELECT2 for the SC-LX73.
- Unavailable with only one surround back speaker connected or not connected.

<sup>3</sup> When listening to 2-channel sources in Neo:6 Cinema or Neo:6 Music mode, you can also adjust the center image effect (see Setting the Audio options on page 72).

<sup>4</sup> Neural Surround can be selected for 2-channel signals for which the input signal is PCM (48 kHz or less), Dolby Digital, DTS or analog 2channel sources.

#### Using the Advanced surround effects

The Advanced surround effects can be used for a variety of additional surround sound effects. Most Advanced Surround modes are designed to be used with film soundtracks, but some modes are also suited for music sources. Try different settings with various soundtracks to see which you like.

## 1 Set the remote control to the receiver operation mode.

### 2 Press ADV SURR (ADVANCED SURROUND) repeatedly to select a listening mode.

- ACTION Designed for action movies with dynamic soundtracks
- DRAMA Designed for movies with lots of dialog
- **SCI-FI** Designed for science fiction with lots of special effects
- MONO FILM Creates surround sound from mono soundtracks
- ENT.SHOW Suitable for musical sources
- EXPANDED Creates an extra wide stereo field
- TV SURROUND Provides surround sound for both mono and stereo TV sources
- ADVANCED GAME Suitable for video games
- SPORTS Suitable for sports programs
- CLASSICAL Gives a large concert hall-type sound
- **ROCK/POP** Creates a live concert sound for rock and/or pop music
- UNPLUGGED Suitable for acoustic music sources
- EXT.STEREO Gives multichannel sound to a stereo source, using all of your speakers
- **PHONES SURR** When listening through headphones, you can still get the effect of overall surround.

### 🚺 Тір

• When an Advanced Surround listening mode is selected, the effect level can be adjusted using the **EFFECT** parameter in *Setting the Audio options* on page 72.

#### Listening in stereo

When you select **STEREO**, you will hear the source through just the front left and right speakers (and possibly your subwoofer depending on your speaker settings). Multichannel sources are downmixed to stereo.

## 1 Set the remote control to the receiver operation mode.

## 2 While listening to a source, press STEREO for stereo playback.

Press repeatedly to switch between:

- **STEREO** The audio is heard with your sound settings and you can still use the audio options.
- **F.S.SURR FOCUS** See Using Front Stage Surround Advance below for more on this.
- F.S.SURR WIDE See Using Front Stage Surround Advance below for more on this.
- **SOUND RETRIEVER AIR**<sup>1</sup> Suitable for listening to the sound from a *Bluetooth* wireless technology device.

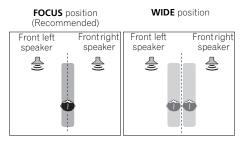
### Using Front Stage Surround Advance

The Front Stage Surround Advance function allows you to create natural surround sound effects using just the front speakers and the subwoofer.

### 1 Set the remote control to the receiver operation mode.

### 2 While listening to a source, press STEREO to select Front Stage Surround Advance modes.

- **STEREO** See *Listening in stereo* above for more on this.
- F.S.SURR FOCUS Use to provide a rich surround sound effect directed to the center of where the front left and right speakers sound projection area converges.
- F.S.SURR WIDE Use to provide a surround sound effect to a wider area than FOCUS mode.



### 🖉 Note

1 The SOUND RETRIEVER AIR listening mode can only selected when the ADAPTER PORT input.

### **Using Stream Direct**

Use the Stream Direct modes when you want to hear the truest possible reproduction of a source. All unnecessary signal processing is bypassed, and you're left with the pure analog or digital sound source. Processing differs depending on the input signal and whether or not surround back speakers are connected. For details, see *Auto Surround, ALC and Stream Direct with different input signal formats* on page 133.

1 Set the remote control to the receiver operation mode.

#### 2 While listening to a source, press AUTO/ALC/ DIRECT (AUTO SURR/ALC/STREAM DIRECT) to select the mode you want.

Check the digital format indicators in the front panel display to see how the source is being processed.

- AUTO SURROUND See Auto playback on page 56.
- ALC Listening in Auto level control mode (page 56).
- DIRECT Plays back sound from the source with the least modification next to PURE DIRECT. With DIRECT, the only modifications added to PURE DIRECT playback are calibration of the sound field by the MCACC system and the Phase Control effect.
- **PURE DIRECT** Plays back unmodified sound from source with only minimal digital treatment. No sound is output from the Speaker B in this mode.
- **OPTIMUM SURR** (*SC-LX83 only*) Listening in Optimum Surround mode (page 56).

### Selecting MCACC presets

#### Default setting: MEMORY 1

If you have calibrated your system for different listening positions, you can switch between settings to suit the kind of source you're listening to and where you're sitting (for example, watching movies from a sofa, or playing a video game close to the TV).

## 1 Set the remote control to the receiver operation mode.

#### 2 While listening to a source, press MCACC.

Press repeatedly to select one of the six MCACC presets<sup>1</sup>. See *Data Management* on page 108 to check and manage your current settings.

### Choosing the input signal

On this receiver, it is possible to switch the input signals for the different inputs as described below.  $^{2}\,$ 

### 1 Set the remote control to the receiver operation mode.

#### 2 Press SIGNAL SEL to select the input signal corresponding to the source component.

Each press cycles through the options as follows:

- AUTO The receiver selects the first available signal in the following order: HDMI; DIGITAL; ANALOG.
- ANALOG Selects an analog signal.
- **DIGITAL** Selects an optical or coaxial digital signal.
- HDMI Selects an HDMI signal.<sup>3</sup>
- PCM For PCM input signals.<sup>4</sup> The receiver selects the first available signal in the following order: HDMI; DIGITAL.

When set to **DIGITAL**, **HDMI** or **AUTO** (only selected **DIGITAL** or **HDMI**), the indicators light according to the signal being decoded (see *Display* on page 15).

### **Better sound using Phase Control**

This receiver's Phase Control feature uses phase correction measures to make sure your sound source arrives at the listening position in phase, preventing unwanted distortion and/or coloring of the sound.

#### 🔗 Note

- These settings have no effect when headphones are connected.
- You can also press ←/→ to select the MCACC preset.

- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.
- 3 When the HDMI audio output parameter is set to THROUGH, the sound will be heard through your TV, not from this receiver.
- 4 This is useful if you find there is a slight delay before AUTO recognizes the PCM signal on a CD, for instance.
   When PCM is calculated using may be output during alloched of and PCM supervised to the state of the state of

<sup>2 •</sup> This receiver can only play back Dolby Digital, PCM (32 kHz to 192 kHz), DTS (including DTS 96/24) and WMA9 Pro digital signal formats. The compatible signals via the HDMI terminals are: Dolby Digital, DTS, WMA9 Pro, PCM (32 kHz to 192 kHz), Dolby TrueHD, Dolby Digital Plus, DTS-EXPRESS, DTS-HD Master Audio and SACD.

<sup>•</sup> You may get digital noise when an LD, CD, DVD or BD player compatible with DTS is playing an analog signal. To prevent noise, make the proper digital connections (page 33) and set the signal input to **DIGITAL**.

<sup>•</sup> When PCM is selected, noise may be output during playback of non-PCM sources. Please select another input signal if this is a problem.

Phase Control technology provides coherent sound reproduction through the use of phase matching<sup>1</sup> for an optimal sound image. The default setting is on and we recommend leaving Phase Control switched on for all sound sources.

### 1 Set the remote control to the receiver operation mode.

### • Press PHASE CTRL (PHASE CONTROL) to switch on phase correction.

The PHASE CONTROL indicator on the front panel lights.

### Better sound using Phase Control and Full Band Phase Control

#### (SC-LX83 only)

This receiver is equipped with the two types of functions that correct phase distortion and group delay: Phase Control and Full Band Phase Control. Activating Full Band Phase Control is strongly recommended because it also involves the effects of Phase Control.

The Full Band Phase Control feature calibrates the frequency-phase characteristics of the speakers connected.

Standard speakers designed exclusively for audio use generally reproduce sound with the divided frequency bands output from a speaker system consisting of multiple speakers (in case of typical 3-way speakers, for instance, the tweeter, the squawker (midrange), and the woofer output sound in the high-, middle-, and lowfrequency ranges, respectively). Though these speakers are designed to flatten the frequency-amplitude characteristics across wide ranges, there are cases where the group delay characteristics are not effectively flattened. This phase distortion of the speakers subsequently causes group delay (the delay of lowfrequency sound against high-frequency sound) during audio signal playback.

This receiver analyzes the frequency-phase characteristics of the speakers by measuring test signals output from the speakers with the supplied microphone, therefore flattening the analyzed frequency-phase characteristics during audio signal playback<sup>2</sup> – the same correction is made for a pair of left and right speakers. This correction minimizes group delay between the ranges of a speaker and improves the frequency-phase characteristics across all ranges.

Furthermore, the enhanced frequency-phase characteristics between channels ensure better surround sound integration for multichannel setting.<sup>3</sup>

## 1 Set the remote control to the receiver operation mode.

#### 2 Press PHASE CTRL (PHASE CONTROL) to select FULLBAND PHASE.<sup>4</sup>

Both the Phase Control and Full Band Phase Control functions are switched on. The **FULL BAND** and *P* indicator, on the front panel lights.

#### 🔗 Note

1 • Phase matching is a very important factor in achieving proper sound reproduction. If two waveforms are 'in phase', they crest and trough together, resulting in increased amplitude, clarity and presence of the sound signal. If a crest of a wave meets a trough, then the sound will be 'out of phase' and an unreliable sound image will be produced.

• The PHASE CONTROL feature is available even when the headphones are plugged in.

• If your subwoofer has a phase control switch, set it to the plus (+) sign (or 0°). However, the effect you can actually feel when

**PHASE CONTROL** is set to **ON** on this receiver depends on the type of your subwoofer. Set your subwoofer to maximize the effect. It is also recommended you try changing the orientation or the place of your subwoofer.

• Set the built-in lowpass filter switch of your subwoofer to off. If this cannot be done on your subwoofer, set the cutoff frequency to a higher value.

- If the speaker distance is not properly set, you may not have a maximized PHASE CONTROL effect.
- The PHASE CONTROL mode cannot be set to ON in the following cases:
- When the PURE DIRECT mode is switched on.
- When MULTI CH IN input is selected.

- When the HDMI audio output parameter is set to THROUGH in Setting the Audio options on page 72.

2 To calibrate and analyze the frequency-phase characteristics of the speakers, either follow the Full Auto MCACC procedure under Advanced MCACC (see Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42), or set Auto MCACC menu under Auto MCACC under Advanced MCACC to Full Band Phase Ctrl. Select ALL when you perform the Auto MCACC with Auto MCACC menu. Upon

calibration of the frequency-phase characteristics of the speakers, the **Full Band Phase Ctrl** feature is automatically switched on. 3 The original characteristics of group delay of the speakers calibrated and the targeted characteristics after correction can be displayed graphically in the GUI screen (see *Group Delay (SC-LX83 only*) on page 107). Also, by transferring the measurement data to the computer using a USB device, the original characteristics of group delay of the speakers calibrated and the corrected characteristics of group delay can be displayed in 3-dimension on your PC (see *Output MCACC data* on page 108).

4 The Full Band Phase Ctrl mode cannot be set to ON in the following cases:

- When headphones are plugged in.
- When the **PURE DIRECT** mode is switched on.
- When MULTI CH IN input is selected.
- When the HDMI audio output parameter is set to THROUGH in Setting the Audio options on page 72.

## Chapter 7: Playback with HOME MEDIA GALLERY inputs (SC-LX83 only)



### **Enjoying the Home Media Gallery**

This receiver's Home Media Gallery function allows you to listen to audio files or listen to Internet radio stations on a computer or other component connected to the receiver's LAN terminal. This chapter describes the setup and playback procedures required to enjoy these features. It is advisory that you also refer to the operation manual supplied with your network component.<sup>1</sup>

### **Features of Home Media Gallery**

This receiver is equipped with the LAN terminal and you can enjoy the following features by connecting your components to these terminals.

#### • Playback the music files stored in PCs<sup>2</sup>

You can playback a lot of musics stored in your PCs using this unit.

→ See Playback with Home Media Gallery on page 62 and Playing back audio files stored on components on the network on page 62.

#### • Listening to Internet radio stations

You can select and listen to your favorite Internet radio station from the list of Internet radio stations created, edited, and managed by the vTuner database service exclusively for use with the Pioneer products.

→ See Playback with Home Media Gallery on page 62 and Listening to Internet radio stations on page 63.

#### • Listening to Neural Music Direct

→ See Listening to Neural Music Direct on page 63.

### Introduction

The Home Media Gallery allows you to play music on media servers connected on an identical Local Area Network (LAN) as the receiver. This unit allows for the playing of files stored on the following:

- PCs running Microsoft Windows Vista or XP with Windows Media Player 11 installed
- PCs running Microsoft Windows 7 with Windows Media Player 12 installed
- DLNA-compatible digital media servers (on PCs or other components)

Files stored in a PC or DMS (Digital Media Server) as described above can be played via command from an external Digital Media Controller (DMC). Devices controlled by this DMC to play files are called DMRs (Digital Media Renderers). This receiver supports this DMR function. When in the DMR mode, such operations as playing and stopping files can be performed from the external controller. Volume adjustment and the muting control are also possible.<sup>3</sup> The DMR mode is canceled if the remote control unit is operated while in the DMR mode (aside from certain buttons, including the **VOL +/–**, **MUTE** and **DISP**).

To play back audio files stored on components on the network or listen to Internet radio stations, you must turn on the DHCP server function of your router. In case your router does not have the built-in DHCP server function, it is necessary to set up the network manually. Otherwise, you cannot play back audio files stored on components on the network or listen to Internet radio stations. See *Network Setup menu* on page 113 for more on this.

#### 🔗 Note

• To listen to Internet radio stations, you must sign a contract with an ISP (Internet Service Provider) beforehand.

Photo or video files cannot be played back.

• With Windows Media Player 11 or Windows Media Player 12, you can even play back copyrighted audio files on this receiver.

2 Besides a PC, you can also play back audio files stored on your other components with the built-in media server function based on DLNA 1.0 or DLNA 1.5 framework and protocols (i.e. network-capable hard disks and audio systems).

<sup>3</sup> Depending on the external controller being used, playback may be interrupted when the volume is adjusted from the controller. In this case, adjust the volume from the receiver or remote control.

#### Authorizing this receiver

In order to be able to play with Home Media Gallery, this receiver must be authorized. This happens automatically when the receiver makes a connection over the network to the PC. If not, please authorize this receiver manually on the PC. The authorization (or permission) method for access varies depending on the type of server currently being connected. For more information on authorizing this receiver, refer to the instruction manual of your server.

### **Playback with Home Media Gallery**

### 😧 Important

- When you play back audio files, 'Connecting...' is displayed before playback starts. The display may continue for several seconds depending on the type of file.
- In case a domain is configured in a Windows network environment, you cannot access a PC on the network while you are logged onto the domain. Instead of logging onto the domain, log onto the local machine.
- There are cases where the time elapsed may not be correctly displayed.

### 1 Set the remote control operation selector switch to SOURCE.

### 2 Press HMG to select Home Media Gallery as the input function.

It may take several seconds for this receiver to access the network. The following screen appears when the Home Media Gallery is selected as the input function. The number next to **I** indicates the number of connected servers.



The server without the  $\Box$  mark cannot be accessed.

## 3 Use $\uparrow/\downarrow$ to select the category you want to play back, and then press ENTER.

Select a category from the following list:

- Internet Radio Internet radio
- Neural Music Direct Internet radio that supports
   Neural Surround
- Server Name Server components on the network

- Favorites Favorite songs currently being registered
- Recently played Internet Radio listening history (most recent 20 incidents)

Depending on the selected category, the names of folders, files, and Internet radio stations are displayed.

## 4 Use ↑/↓ to select the folder, music files or Internet radio station to play back, and then press ENTER.

Press  $\uparrow/\downarrow$  to scroll up and down the list and select the desired item. When you press **ENTER**, playback starts with the playback screen being displayed for the selected

item. To return to the list screen, press **RETURN**.<sup>1</sup>

Only audio files with the  $\square$  mark can be played. In case of the folders with the  $\square$  mark, use  $\uparrow/\downarrow$  and **ENTER** to select the desired folder and audio files.

#### 5 Repeat step 4 to play back the desired song.

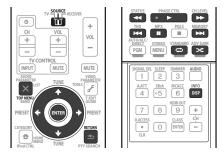
For detailed operating instructions, refer to the section shown below.

- Internet radio stations See *Listening to Internet* radio stations on page 63.
- Neural Music Direct See *Listening to Neural Music Direct* on page 63.
- Server See Playing back audio files stored on components on the network below.

## Playing back audio files stored on components on the network

You can perform the following operations with the remote control of this receiver. Note that some buttons are not available for operation depending on the category currently being played back.

 Set the remote control operation selector switch to SOURCE, then press HMG to switch the remote control to the HOME MEDIA GALLERY operation mode.



1 When the list screen is displayed from the playback screen, the playback screen reappears automatically if no operation is performed for 10 seconds while the list screen is displayed.

🖉 Note

#### Listening to Internet radio stations

Internet radio is an audio broadcasting service transmitted via the Internet. There are a large number of Internet radio stations broadcasting a variety of services from every corner of the world. Some are hosted, managed, and broadcast by private individuals while others are by the corresponding traditional terrestrial radio stations or radio networks. Whereas terrestrial, or OTA (over-the-air), radio stations are geographically restricted on the range of radio waves broadcast from a transmitter through the air, Internet radio stations are accessible from anywhere in the world, as long as there is a connection to the Internet, as services are not transmitted through the air but are delivered over the World Wide Web. On this receiver you can select Internet radio stations by genre as well as by region.

Depending on the Internet line conditions, the sound may not be smooth when playing Internet radio.

#### About list of Internet radio

The list of Internet radio stations on this receiver is created, edited, and managed by the vTuner database service exclusively for use with this receiver. For details about vTuner, see *vTuner* on page 67.

#### Saving and retrieving Internet radio stations

You can easily save and retrieve saved Internet radio stations. See *Advanced operations for Internet radio* on page 64 for more on this.<sup>1</sup>

#### Registering broadcast stations not on the vTuner list from the special Pioneer site

With the receiver, broadcast stations not included on the list of station distributed by vTuner can be registered and played. Check the access code required for registration on the receiver, use this access code to access the special Pioneer Internet radio site and register the desired broadcast stations in your favorites. The address of the special Pioneer Internet radio site is: http://www.radio-pioneer.com

#### 1 Display the Internet Radio list screen.

To display the Internet Radio list screen, perform steps 1 to 3 at *Playback with Home Media Gallery* on page 62.

#### 2 Use $\uparrow/\downarrow$ to select 'Help', then press ENTER.

### 3 Use $\uparrow/\downarrow$ to select 'Get access code', then press ENTER.

The access code required for registration on the special Pioneer Internet radio site is displayed. Make a memo of this address.

The following can be checked on the **Help** screen:

- Get access code The access code required for registration on the special Pioneer Internet radio site is displayed.
- Show Your WebID/PW After registering on the special Pioneer Internet radio site, the registered ID and password are displayed.
- **Reset Your WebID/PW** Resets all the information registered on the special Pioneer Internet radio site. When reset, all the registered broadcast stations are also cleared. If you want to listen to the same stations, re-register after resetting.

### 4 Access the special Pioneer Internet radio site from your computer and perform the registration process. http://www.radio-pioneer.com

Access the above site and use the access code in step 3 to perform user registration, following the instructions on the screen.

# 5 Register the desired broadcast stations as your favorites, following the instructions on the computer's screen.

Both broadcast stations not on the vTuner list and stations on the vTuner list can be registered. In this case they are registered on the receiver as favorite broadcast stations and can be played.

#### **Listening to Neural Music Direct**

Neural Music Direct is an Internet radio station managed and operated by Neural Audio. Neural radio stations deliver multichannel surround sound. The Neural Surround mode is automatically selected and lets you enjoy a rich multichannel surround sound experience.



Neural Surround is a trademark owned by Neural Audio Corporation.

#### 🔗 Note

- To listen to Internet radio stations, you must have high-speed broadband Internet access. With a 56 K or ISDN modem, you may not enjoy the full benefits of Internet radio.
- The port number varies depending on the Internet radio station. Check the firewall settings.

• A list of Internet radio stations provided by the vTuner database service is subject to change or deletion without notice due to various reasons.

<sup>•</sup> Broadcasts may be stopped or interrupted depending on the Internet radio station. In this case, you cannot listen to a radio station selected from the list of Internet radio stations.

#### Playing back your favorite songs

You can register up to 20 of your favorite songs or Internet radio stations in the Favorites folder. Note that only the audio files stored on components on the network can be registered.

## Registering and deleting audio files and Internet radio stations in and from the Favorites folder

Press **PGM** while a song is being played back or stopped. The selected song is then registered in the Favorites folder.

Up to 20 songs or Internet radio stations can be registered.

To delete a registered song, select the Favorites folder, select the song you want to delete from the folder, and press **CLR**. The selected song is then deleted from the Favorites folder.

### **Advanced operations for Internet radio**

#### **Saving Internet radio stations**

This receiver can remember the Internet radio stations that you often listen to in seven classes (A to G) with up to nine stations in each class to make the total of 63 stations at its maximum capacity.

### 1 Set the remote control operation selector switch to SOURCE.

### 2 Tune into the Internet radio station that you want to save.

Tune into the desired Internet radio station by following Steps 2 to 4 on page 62.

#### 3 Press T.EDIT to switch to the station-saving mode.

4 Press CLASS to select the class that you want to save the station in.

Select the desired class from A to G.

## 5 Use $\uparrow/\downarrow$ to select the number that you want to save the station as, and then press ENTER.

You can also select the station number by using the number buttons. Select the desired number from 1 to 9.

#### **Retrieving saved Internet radio stations**

You need to save Internet radio stations first before retrieving them. If there are no Internet radio stations currently being saved, see *Saving Internet radio stations* above and save at least one Internet radio station before proceeding with the following steps.

### 1 Set the remote control operation selector switch to SOURCE.

### 2 Select the class that you want to retrieve an Internet radio station from.

Each time you press  $\ensuremath{\text{CLASS}}$  , the class switches to A to G in turn.

### 3 Use $\uparrow/\downarrow$ to select the station number that you want to retrieve.

You can also select the station number by using the number buttons.

**'Preset Not Stored'** appears when you select an Internet radio station currently not being saved.

#### About network playback

The network playback function of this unit uses the following technologies:

#### Windows Media Player

See *Windows Media Player 11/ Windows Media Player 12* on page 67 for more on this.

#### Windows Media DRM

Microsoft Windows Media Digital Rights Management (WMDRM) is a platform to protect and securely deliver content for playback on computers, portable devices and network devices. Home Media Gallery functions as a WMDRM 10 for networked devices. WMDRM protected content can only be played on media servers supporting WMDRM.

Content owners use WMDRM technology to protect their intellectual property, including copyrights. This device uses WMDRM software to access WMDRM protected content. If the WMDRM software fails to protect the content, content owners may ask Microsoft to revoke the software's ability to use WMDRM to play or copy protected content. Revocation does not affect unprotected content. When you download licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade WMDRM to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade. This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

DLNA



DLNA CERTIFIED™ Audio Player

The Digital Living Network Alliance (DLNA) is a crossindustry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.5.

When a PC running DLNA server software or other DLNA compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

DLNA and DLNA CERTIFIED are trademarks and/or service marks of Digital Living Network Alliance.

#### Content playable over a network

- Even when encoded in a compatible format, some files may not play correctly.
- Movie or Photo files cannot be played back.
- There are cases where you cannot listen to an Internet radio station even if the station can be selected from a list of radio stations.
- Some functions may not be supported depending on the server type or version used.
- Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit. For more information check with the manufacturer of your server.

#### About playback behavior over a network

- Playback may stall when the PC is switched off or any media files stored on it are deleted while playing content.
- If there are problems within the network environment (heavy network traffic, etc.) content may not be displayed or played properly (playback may be interrupted or stalled). For best performance, a 100BASE-TX connection between player and PC is recommended.
- If several clients are playing simultaneously, as the case may be, playback is interrupted or stalled.
- Depending on the security software installed on a connected PC and the setting of such software, network connection may be blocked.

Pioneer is not responsible for any malfunction of the player and/or the Home Media Gallery features due to communication error/malfunctions associated with your network connection and/or your PC, or other connected equipment. Please contact your PC manufacturer or Internet service provider.

"Windows Media™" is a trademark of Microsoft Corporation.

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Microsoft<sup>®</sup>, Windows<sup>®</sup>7, Windows<sup>®</sup>Vista, Windows<sup>®</sup>XP, Windows<sup>®</sup>2000, Windows<sup>®</sup>Millennium Edition, Windows<sup>®</sup>98, and WindowsNT<sup>®</sup> are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

### Software update

Information on software updates may be posted on the Pioneer website. http://www.pioneer.eu

### About playable file formats

The Home Media Gallery feature of this receiver supports the following file formats. Note that some file formats are not available for playback although they are listed as playable file formats. Also, the compatibility of file formats varies depending on the type of server. Check with your server to ensure the compatibility of file formats supported by your server.

#### **Music files**

Category	Extension	Stream		
MP3 <sup>a</sup>	.mp3	MPEG-1 Audio Layer-3	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	8 kbps to 320 kbps
			VBR/CBR	Supported/Supported
LPCM	b	LPCM	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit, 20 bit, 24 bit
			Channel	2 ch
WAV	.wav	LPCM	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit, 20 bit, 24 bit
			Channel	2 ch
WMA	.wma	WMA2/7/8	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	5 kbps to 320 kbps
			VBR/CBR	Supported/Supported
		WMA9	Sampling frequency	8 kHz to 48 kHz
			Quantization bitrate	16 bit
			Channel	2 ch
			Bitrate	5 kbps to 320 kbps
			VBR/CBR	Supported/Supported
AAC	.m4a	MPEG-4 AAC LC	Sampling frequency	32 kHz to 48 kHz
	.aac	MPEG-4 HE AAC	Quantization bitrate	16 bit
	.3gp	(aacPlus v1/2)	Channel	2 ch
	.3g2		Bitrate	16 kbps to 320 kbps
			VBR/CBR	Supported/Supported
FLAC	.flac	FLAC	Sampling frequency	8 kHz, 16 kHz, 22 kHz, 32 kHz, 44.1 kHz, 48 kHz
			Quantization bitrate	8 bit, 16 bit
			Channel	2 ch (8-bit monaural audio is not supported)
			Bitrate	_
			VBR/CBR	Not supported/Supported

a. "MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia."

b.Only streaming data from servers is concerned, so there is no extension.

### Glossary

#### aacPlus

AAC decoder uses aacPlus developed by Coding Technologies. (www.codingtechnologies.com)





#### FLAC

FLAC (Free Lossless Audio Codec) is an audio format allows lossless codec. Audio is compressed in FLAC without any loss in quality. For more details about FLAC, visit the following website: http://flac.sourceforge.net/

#### vTuner

vTuner is a paid online database service that allows you to listen to radio and TV broadcasts on the Internet. vTuner lists thousands of stations from over 100 different countries around the globe. For more detail about vTuner, visit the following website: http://www.radio-pioneer.com

"This product is protected by certain intellectual property rights of NEMS and BridgeCo. Use or distribution of such technology outside of this product is prohibited without a license from NEMS and BridgeCo or an authorized subsidiary."

#### Windows Media

Windows Media is a multimedia framework for media creation and distribution for Microsoft Windows. Windows Media is either a registered trademark or trademark of Microsoft Corporation in the U.S. and/or other countries. Use an application licensed by Microsoft Corporation to author, distribute, or play Windows Media formatted content. Using an application unauthorized by Microsoft Corporation is subject to malfunction.

#### Windows Media DRM

Windows Media DRM is a DRM (Digital Rights Management) service for the Windows Media platform. It is designed to provide secure delivery of audio and/or video content over an IP network to a PC or other playback device in such a way that the distributor can control how that content is used. The WMDRM-protected content can only be played back on a component supporting the WMDRM service.

#### Windows Media Player 11/ Windows Media Player 12

Windows Media Player is software to deliver music, photos and movies from a Microsoft Windows computer to home stereo systems and TVs.

With this software, you can play back files stored on the PC through various devices wherever you like in your home.

This software can be downloaded from Microsoft's website.

- Windows Media Player 11 (for Windows XP or Windows Vista)
- Windows Media Player 12 (for Windows 7)

For more information check the official Microsoft website.

## Chapter 8: Control with HDMI function

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **RECEIVER** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

Synchronized operations below with a **Control** with HDMI-compatible Pioneer TV or Blu-ray disc player or with a component of another make that supports the **Control** with HDMI functions are possible when the component is connected to the receiver using an HDMI cable.

- The receiver's volume can be set and the sound can be muted using the TV's remote control.
- The receiver's input switches over automatically when the TV's channel is changed or a **Control** with HDMI-compatible component is played.
- The receiver's power is also set to standby, when the TV's power is set to standby.

### Important Important

- With Pioneer devices, the **Control** with HDMI functions are referred to as "KURO LINK".
- You cannot use this function with components that do not support **Control** with HDMI.
- We do not guarantee this receiver will work with Pioneer **Control** with HDMI-compatible components or components of other makes that support the **Control** with HDMI function. We do not guarantee that all synchronized operations will work with components of other makes that support the **Control** with HDMI function.
- Use a High Speed HDMI<sup>®</sup> cable when you want to use the **Control** with HDMI function. The **Control** with HDMI function may not work properly if a different type of HDMI cable is used.
- For details about concrete operations, settings, etc., refer to also the operating instructions for each component.

# Making Control with HDMI connections

You can use synchronized operation for a connected TV and up to five other components.

• Be sure to connect the TV's audio cable to the audio input of this unit. When the TV and receiver are connected by HDMI connections, if the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set **TV Audio** at **HDMI Setup** to **via HDMI** (see *HDMI Setup* on page 69).

For details, see *Connecting your TV and playback components* on page 28.

### Important

- When connecting this system or changing connections, be sure to switch the power off and disconnect the power cord from the wall socket. After completing all connections, connect the power cords to the wall socket.
- After this receiver is connected to an AC outlet, a 2 second to 10 second HDMI initialization process begins. You cannot carry out any operations during initialization. The HDMI indicator on the display unit blinks during initialization, and you can turn this receiver on once it has stopped blinking.
- To get the most out of this function, we recommend that you connect your HDMI component not to a TV but rather directly to the HDMI terminal on this receiver.
- While the receiver is equipped with six HDMI inputs (BD, HDMI 1 to 5), the **Control** with HDMI function can only be used with up to three DVD or Blu-ray disc players or up to three DVD or Blu-ray disc recorders.
- The Control with HDMI function can be used with a TV connected to the HDMI OUT 1 terminal, but not with a TV connected to the HDMI OUT 2 terminal.

### **HDMI Setup**

You must adjust the settings of this receiver as well as the connected **Control** with HDMI-compatible components in order to make use of the **Control** with HDMI function. For more information see the operating instructions for each component.

### **1** Set the remote control to the receiver operation mode, then press HOME MENU.

- 2 Select 'System Setup', then press ENTER.
- 3 Select 'Other Setup', then press ENTER.
- 4 Select 'HDMI Setup', then press ENTER.
- 5 Select the 'Control' setting you want.

Choose whether to set this unit's **Control** with HDMI function **ON** or **OFF**. You will need to set it to **ON** to use the **Control** with HDMI function.

When using a component that does not support the **Control** with HDMI function, set this to **OFF**.

- **ON** Enables the **Control** with HDMI function. When this unit's power is turned off and you have a supported source begin playback while using the **Control** with HDMI function, the audio and video outputs from the HDMI connection are output from the TV.
- **OFF** The **Control** with HDMI is disabled. Synchronized operations cannot be used. When this unit's power is turned off, audio and video of sources connected via HDMI are not output.

**6** Select the 'Control Mode' setting you want. Choose whether you want to enable HDMI for all linked functions or the PQLS function only. However, Display Power Off will activate the settings set forth in step 7 below.

- ALL Enabled for all linked functions.
- **PQLS** Enabled only for the PQLS function. When **PQLS** is selected, link functions other than the PQLS function may not work properly. If you wish to use all link functions, select **ALL**.

**7** Select the 'Display Power Off' setting you want. If the TV's power is turned off while using the **Control** with HDMI function, the receiver's power is also turned off (all power off function). This function can be disabled.

• **YES** – The all power off function is enabled. The receiver's power turns off together with the TV's power.

This function only works when the input for a component connected to the receiver by HDMI connection is selected or when watching the TV.

• NO – The all power off function is disabled. The receiver's power is not affected when the TV's power is turned off.

#### 8 Select the 'Standby Through' setting you want.

It is possible to transfer signals from an HDMI-connected player to the TV when this receiver's power is on standby as long as **Control** is **ON**, but the amount of energy consumed rises. It is, however, possible to minimize energy consumption when power is set to standby.

- **Normal** Regular setting. Power-up time from standby is short.
- Eco Conserves energy while standby. Power-up time is longer than when set to Normal.

#### 9 Select the 'TV Audio' setting you want.

When a TV supporting the HDMI Audio Return Channel function is connected to the receiver, the sound of the TV can be input via the HDMI terminal.

- Normal The TV's sound is input from the Audio input terminals other than HDMI inputs.
- via HDMI The TV's sound is input via the HDMI terminal. This can only be selected when Control is set to ON.

#### 10 Select the '12V Trigger' setting you want.

The component connected to the **12V TRIGGER** jack can be turned on and off when **HDMI OUT** is switched. **HDMI OUT 1**, **HDMI OUT 2** or **OFF** can be selected. Select **OFF** when you want the component to switch when the input function is switched.

11 When you're finished, press HOME MENU.

### Before using synchronization

Once you have finished all connections and settings, you must:

1 Put all components into standby mode.

### 2 Turn the power on for all components, with the power for the TV being turned on last.

3 Choose the HDMI input to which the TV is connected to this receiver, and see if video output from connected components displays properly on the screen or not.

4 Check whether the components connected to all HDMI inputs are properly displayed.

### About synchronized operations

The **Control** with HDMI-compatible component connected to the receiver operates in sync as described below.

- From the menu screen of the **Control** with HDMIcompatible TV, set audio to be played through this receiver, and the receiver will switch to the synchronized amp mode.
- When in the synchronized amp mode, you can adjust the receiver's volume or mute the sound using the TV's remote control.
- When in the synchronized amp mode, the synchronized amp mode is canceled when the receiver's power is turned off. To turn the synchronized amp mode back on, set audio to be played through the receiver from the TV's menu screen, etc. This receiver will power up and switch to the synchronized amp mode.
- When the synchronized amp mode is canceled, the receiver's power turns off if you were viewing an HDMI input or a TV program on the TV.
- When in the synchronized amp mode, the synchronized amp mode is canceled if an operation that produces sound from the TV is performed from the TV's menu screen, etc.
- When the TV's power is set to standby, the receiver's power is also set to standby. (Only when the input for a component connected to the receiver by HDMI connection is selected or when watching the TV.)
- The receiver's input switches automatically when the **Control** with HDMI-compatible component is played.
- The receiver's input switches automatically when the TV's channel is switched.
- The synchronized amp mode remains in effect even if the receiver's input is switched to a component other than one connected by HDMI.

The operations below can also be used on Pioneer **Control** with HDMI-compatible TVs.

- When the receiver's volume is adjusted or the sound is muted, the volume status is displayed on the TV's screen.
- When the OSD language is switched on the TV, the receiver's language setting also switches accordingly.

# About connections with a product of a different brand that supports the Control with HDMI function

The synchronized operations below can be used when the receiver's **Control** with HDMI function is connected to a TV of a brand other than Pioneer that supports the **Control** with HDMI function. (Depending on the TV, however, some of the **Control** with HDMI functions may not work.)

- When the TV's power is set to standby, the receiver's power is also set to standby. (Only when the input for a component connected to the receiver by HDMI connection is selected or when watching the TV)
- The sound of TV programs or an external input connected to the TV can also be output from the speakers connected to the receiver. (If the TV does not support the HDMI Audio Return Channel function, this requires connection of an optical digital cable, etc., in addition to the HDMI cable.)

The synchronized operations below can be used when the receiver's **Control** with HDMI function is connected to a player or recorder of a brand other than Pioneer that supports the **Control** with HDMI function.

• When playback starts on the player or recorder, the receiver's input switches to the HDMI input to which that component is connected.

See the Pioneer website for the latest information on the models of non-Pioneer brands and products that support the **Control** with HDMI function.

### **Setting the PQLS function**

PQLS (Precision Quartz Lock System) is a digital audio signal transfer control technology using the **Control** with HDMI function. It offers higher-quality audio playback by controlling audio signals from the receiver to a PQLS compatible player, etc. This enables removing jitter that has a negative effect on the quality of the sound and is generated upon transmission.

- SC-LX83 only: On players compatible with PQLS Bitstream, PQLS always works for all sources.
- On players compatible with PQLS Multi Surround, PQLS works for all sources. Set the player's audio output to Linear PCM.
- On players compatible with PQLS 2 ch Audio, PQLS only works when playing CDs.

Please refer to the operating instructions supplied with your player for more information.

This function is activated when **Control** is set to **ON**.<sup>1</sup>

• Set the remote control to the receiver operation mode, then press PQLS to select the PQLS setting. The setting is displayed on the front panel display.

- **PQLS AUTO** PQLS is enabled. A precision quartz controller in this receiver eliminates distortion caused by timing errors (jitter), giving you the best possible digital-to-analog conversion when you use the HDMI interface. This is valid as an HDMI function for PQLS-compatible players.
- PQLS OFF PQLS is disabled.

# Cautions on the Control with HDMI function

- Connect the TV directly to this receiver. Interrupting a direct connection with other amps or an AV converter (such as an HDMI switch) can cause operational errors.
- Only connect components (Blu-ray disc player, etc.) you intend to use as a source to the HDMI input of this receiver. Interrupting a direct connection with other amps or an AV converter (such as an HDMI switch) can cause operational errors.
- When Control is set to ON, HDMI Input in *The Input* Setup menu on page 44 is automatically set to OFF.
- When the receiver's **Control** is turned **ON**, even if the receiver's power is in the standby mode, it is possible to output the audio and video signals from a player via HDMI to the TV without producing sound from the receiver, but only when a **Control** with HDMI-compatible component (Blu-ray disc player, etc.) and compatible TV are connected. In this case, the receiver's power turns on and the power and **HDMI** indicators light.

#### 🔗 Note

<sup>•</sup> If a listening mode other than AUTO SURROUND, ALC, DIRECT, PURE DIRECT, OPTIMUM SURR (SC-LX83 only) or STEREO is selected while the PQLS effect is enabled, the PQLS effect is disabled.

<sup>•</sup> When this receiver is connected by HDMI cable to a Pioneer player that is compatible with the PQLS function via HDMI connection and HDMI reauthentication is performed (the **HDMI** indicator blinks), the PQLS effect is enabled and the listening mode is set to **AUTO SURROUND** if a listening mode other than **AUTO SURROUND**, **ALC**, **DIRECT**, **PURE DIRECT**, **OPTIMUM SURR** (*SC-LX83 only*) or **STEREO** is selected.

## Chapter 9: Using other functions

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **RECEIVER** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

### **Setting the Audio options**

There are a number of additional sound settings you can make using the **AUDIO PARAMETER** menu. The defaults, if not stated, are listed in bold.

### 🔇 Important

 Note that if a setting doesn't appear in the AUDIO PARAMETER menu, it is unavailable due to the current source, settings and status of the receiver.

### 1 Set the remote control to the receiver operation mode, then press AUDIO PARAMETER.

#### 2 Use $\uparrow/\downarrow$ to select the setting you want to adjust.

Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this.

#### 3 Use ←/→ to set as necessary.

See the table below for the options available for each setting.

#### 4 Press RETURN to confirm and exit the menu.

Setting	What it does	Option(s)
MCACC (MCACC preset)	Selects your favorite MCACC preset memory when multiple preset memories are saved. When an MCACC preset memory has been renamed, the given name is displayed.	M1. MEMORY 1 to M6. MEMORY 6 Default: M1. MEMORY 1
EQ	Switches on/off the effects of EQ	ON
(Acoustic Calibration EQ)	Pro.	OFF
S-WAVE	Switches on/off the effects of Standing Wave Control.	ON
(Standing Wave)		OFF

Setting DELAY (Sound Delay) MIDNIGHT	What it does Some monitors have a slight delay when showing video, so the soundtrack will be slightly out of sync with the picture. By adding a bit of delay, you can adjust the sound to match the presentation of the video. Allows you to hear effective	Option(s) 0.0 to 10.0 (frames) 1 second = 25 frames (PAL) Default: 0.0 MIDNIGHT/
	surround sound of movies at low volumes.	LOUDNESS OFF
LOUDNESS	Used to get good bass and treble from music sources at low volumes.	LOUDNESS ON
<b>TONE</b> (Tone Control)	Applies the treble and bass tone controls to a source, or bypasses them completely.	BYPASS ON
BASS <sup>a</sup>	Adjusts the amount of bass. Adjusts the amount of treble.	-6 to +6 (dB) Default: <b>0</b> (dB) -6 to +6 (dB)
TREBLE <sup>a</sup>		Default: 0 (dB)
S.RTRV	With the Sound Retriever	OFFb
(Sound Retriever)	function, DSP processing is used to compensate for the loss of audio data upon compression, improving the sound's sense of density and modulation.	ON
DNR	May improve the quality of sound	OFF
(Digital Noise Reduction)	in a noisy source (for example, video tape with lots of background noise) when switched on.	ON
DIALOG E	Localizes dialog in the center	OFF
(Dialog Enhance ment)	channel to make it stand out from other background sounds in a TV or movie soundtrack. By moving from UP1 through UP2 and UP3 up to UP4, you can make the sound source seem to relocate upwards.	FLAT UP1/UP2/UP3/ UP4 <sup>c</sup>
Hi-bit32 (SC-LX83 only) (Hi-bit32/ High- Sampling)	Creates a wider dynamic range with digital sources like CDs, DVDs or BDs. Smoother, more delicate musical expression can be achieved by requantizing 16 bit PCM or 20 bit compressed audio signals or 24 bit compressed/lossless audio signals to 32 bit.	OFF ON
Hi-bit (SC-LX73 only) (High Bit/ High Sampling)	Creates a wider dynamic range with digital sources like CDs or DVDs. Smoother, more delicate musical expression can be achieved by requantizing 16 bit PCM or 20 bit compressed audio signals to 24 bit.	OFF ON

### **Using other functions**

Setting	What it does	Option(s)
DUAL	Specifies how dual mono	CH1-Channel
(Dual	encoded Dolby Digital	1 is heard only
Mono)	soundtracks should be played.	CH2-Channel
	Dual mono is not widely used, but is sometimes necessary when	2 is heard only
	two languages need to be sent to	CH1 CH2 –
	separate channels.	Both channels heard from
		front speakers
DRC	Adjusts the level of dynamic	AUTOd
(Dynamic	range for movie soundtracks	MAX
Range Control)	optimized for Dolby Digital, DTS, Dolby Digital Plus, Dolby TrueHD,	MID
001111017	DTS-HD and DTS-HD Master	OFF
	Audio (you may need to use this	
	feature when listening to surround sound at low volumes).	
LFE	Some audio sources include	<b>0dB</b> / –5dB/
(LFE	ultra-low bass tones. Set the LFE	–10dB/ –15dB/
Attenuate)	attenuator as necessary to	–20dB
	prevent the ultra-low bass tones from distorting the sound from	OFF
	the speakers.	
	The LFE is not limited when set to	
	0 dB, which is the recommended	
	value. When set to -5 dB, -10 dB, -15 dB or -20 dB, the LFE is	
	limited by the respective degree.	
	When OFF is selected, no sound	
	is output from the LFE channel.	
SACD	Brings out detail in SACDs by maximizing the dynamic range	0dB
GAIN <sup>e</sup>	(during digital processing).	+6 dB
HDMI <sup>f</sup>	Specifies the routing of the HDMI	AMP
(HDMI	audio signal out of this receiver ( <i>amp</i> ) or <i>through</i> to a TV. When	THROUGH
Audio)	THROUGH is selected, no sound	
	is output from this receiver.	
A. DELAY	This feature automatically	OFF
(Auto delay)	corrects the audio-to-video delay between components connected	ON
ueray)	with an HDMI cable. The audio	
	delay time is set depending on the	
	operational status of the display	
	connected with an HDMI cable. The video delay time is	
	automatically adjusted according	
	to the audio delay time. <sup>g</sup>	
$\textbf{C. WIDTH}^{h}$	Provides a better blend of the	0 to 7
(Center	front speakers by spreading the center channel between the front	Default: 3
Width) (Applicable	right and left speakers, making it	
	sound wider (higher settings) or	
only when		
using a	narrower (lower settings).	
-	narrower (lower settings).	

Setting	What it does	Option(s)
DIMENSION <sup>h</sup>	Adjusts the depth of the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	–3 to +3 Default: <b>0</b>
PANORAMAh	Extends the front stereo image to include the surround speakers for a 'wraparound' effect.	OFF ON
C. IMAGE <sup>i</sup> (Center Image) (Applicable only when using a center speaker)	Adjusts the center image to create a wider stereo effect with vocals. Adjust the effect from <b>0</b> (all center channel sent to front right and left speakers) to <b>10</b> (center channel sent to the center speaker only).	0 to 10 Defaults: Neo:6 MUSIC: <b>3</b> Neo:6 CINEMA: <b>10</b>
EFFECT	Sets the effect level for the currently selected Advanced Surround or ALC mode (each mode can be set separately).	10 to 90 Defaults: EXT.STEREO: <b>90</b> Others: <b>50</b>
H.GAIN	Adjusts the output from the front	LOW
(Height Gain)	height speaker when listening in <b>DOLBY PLIIZ HEIGHT</b> mode. If set	MID
Gainy	to <b>HIGH</b> , the sound from the top will be more emphasized.	HIGH
V.SB	When you're not using surround	OFF
(Virtual Surround Back)	back speakers, selecting this mode allows you to hear a virtual surround back channel through your surround speakers. You can choose to listen to sources with no surround back channel information, or if the material sounds better in the format (for example, 5.1) for which it was originally encoded, you can have the receiver only apply this effect to 6.1 encoded sources like Dolby Digital EX or DTS-ES. <sup>1</sup>	ON
V.HEIGHT	When you're not using front	OFF
(Virtual Height)	height speakers, selecting this mode allows you to hear a virtual front height channel through your front speakers. <sup>k</sup>	ON
a.The adjustm	nent can be made only when <b>TONE</b> is	set to <b>ON</b> .

b.With the iPod/USB, HOME MEDIA GALLERY (SC-LX83 only), INTERNET RADIO (SC-LX73 only) or ADAPTER PORT input function, by default S.RTRV is set to ON.

c.UP1 to UP4 can be selected only when the front height speaker is connected. The presence or absence of effects depends on the listening mode.

d.The initially set **AUTO** is only available for Dolby TrueHD signals. Select **MAX** or **MID** for signals other than Dolby TrueHD.

e. You shouldn't have any problems using this with most SACD discs, but if the sound distorts, it is best to switch the gain setting back to  ${\bf 0}$  dB.

f. The HDMI Audio setting cannot be switched while performing synchronized amp mode operations.

 The synchronized amp mode must be turned on in order to play the receiver's HDMI audio and video input signals from the TV with the receiver's power in the standby mode. See About synchronized operations on page 70.

- g.This feature is only available when the connected display supports the automatic audio/video synchronizing capability ('lipsync') for HDMI. If you find the automatically set delay time unsuitable, set **A. DELAY** to **OFF** and adjust the delay time manually. For more details about the lipsync feature of your display, contact the manufacturer directly.
- h.Only when listening to 2-channel sources in Dolby Pro Logic IIx Music/Dolby Pro Logic II Music mode.
- i. Only when listening to 2-channel sources in Neo:6 MUSIC/CINEMA mode.
- j. You can't use the Virtual Surround Back mode when the headphones are connected to this receiver or when any of the stereo, Front Stage Surround Advance, Sound Retriever Air or Stream Direct modes is selected.

 You can only use the Virtual Surround Back mode if the surround speakers are on and the SB setting is set to NO or if Front Bi-Amp or ZONE 2 is selected at Speaker System. It can also be used when Speaker B is selected at Speaker system and SP►AB is selected with the SPEAKERS button.

• When inputting Dolby True HD (SC-LX73 only), DTS-HD or DTS Express audio signals, the Virtual Surround Back mode cannot be used if no surround signals are recorded in the source.

- k. You can't use the Virtual Height mode when the headphones are connected to this receiver or when any of the stereo, Front Stage Surround Advance, Sound Retriever Air or Stream Direct modes is selected.
- The Virtual Height mode cannot be used when no surround speaker is connected.

• When inputting Dolby True HD (SC-LX73 only), DTS-HD or DTS Express audio signals, the Virtual Height mode cannot be used if no surround signals are recorded in the source.

### **Setting the Video options**

There are a number of additional picture settings you can make using the **VIDEO PARAMETER** menu. The defaults, if not stated, are listed in bold.

### 🚯 Important

- Note that if an option cannot be selected on the VIDEO PARAMETER menu, it is unavailable due to the current source, setting and status of the receiver.
- All of the setting items can be set for each input function.
- Setting items other than V. CONV can only be selected when V. CONV is set to ON.

### **1** Set the remote control to the receiver operation mode, then press VIDEO PARAMETER.

#### 2 Use $\uparrow/\downarrow$ to select the setting you want to adjust.

Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this.

#### 3 Use ←/→ to set as necessary.

See the table below for the options available for each setting.

#### 4 Press RETURN to confirm and exit the menu.

Setting	What it does	Option(s)
V. CONV <sup>a</sup>	Converts video signals for output from the <b>MONITOR OUT</b> jacks	ON
(Digital Video Conversion)	(including <b>HDMI OUT</b> connector) for all video types (see page 26).	OFF
RESb	Specifies the output resolution of	AUTO
(Resolution)	the video signal (when video input signals are output at the <b>HDMI</b>	PURE
	OUT connector, select this	480p/576p
	according to the resolution of your	720p
	monitor and the images you wish to watch).	1080i
	to watch).	1080p
		1080/24p
ASP <sup>C</sup>	Specifies the aspect ratio when	THROUGH
(Aspect)	input signals are output at the HDMI output. Make your desired settings while checking each setting on your display (if the image doesn't match your monitor type, cropping or black bands appear).	NORMAL
PCINEMA <sup>d,e</sup>	This setting optimizes the	AUTO
(PureCinema)	operation of the progressive	ON
	scanning circuit for playing film materials. Normally set it to <b>AUTO</b> . If the picture seems unnatural, switch this to <b>ON</b> or <b>OFF</b> .	OFF
P.MOTION <sup>d,e</sup>	Adjusts the motion and still picture	-4 to +4
(Progressive Motion)	quality when video output is set to progressive.	Default: <b>0</b>
YNR <sup>d</sup>	Reduces noise in the luminance	0 to +8
	(Y) signal.	Default: <b>0</b>
CNR <sup>d</sup>	Reduces noise in the input's color	0 to +8
	(C) signal.	Default: <b>0</b>
BNR <sup>d</sup>	Reduces block noise (block-	0 to +8
	shaped distortion generated upon MPEG compression) in the picture.	Default: 0
MNR <sup>d</sup>	Reduces mosquito noise	0 to +8 Default: <b>0</b>
	(distortion generated at the contours of the picture upon MPEG compression) in the picture.	
DETAIL	contours of the picture upon MPEG compression) in the	0 to +8

Setting	What it does	Option(s)
BRIGHT <sup>d</sup>	Adjusts the overall brightness.	-6 to +6
(Brightness)		Default: <b>0</b>
CONTRAST <sup>d</sup>	Adjusts the contrast between light	-6 to +6
	and dark.	Default: <b>0</b>
HUEd	Adjusts the red/green balance.	-6 to +6
		Default: <b>0</b>
<b>CHROMA</b> <sup>d</sup>	Adjusts saturation from dull to	-6 to +6
(Chroma	bright.	Default: <b>0</b>
Level)		
BLK SETUP <sup>f</sup>	Corrects the black depth in the	0
	brightness signal.	7.5
	Normally select <b>0</b> . If the black level	
	is too bright due to the combination with the connected	
	monitor, select <b>7.5</b> .	

a. If the video picture deteriorates when this settings is switched  $\mathbf{ON},$  switch it  $\mathbf{OFF}.$ 

b. • When set to a resolution with which the TV (monitor) is not

compatible, no picture is output. Also, in some cases no picture will be output due to copyright protection signals. In this case, change the setting.

 When AUTO is selected, the resolution is selected automatically according to the capacity of the TV (monitor) connected by HDMI.
 When PURE is selected, the signals are output with the same resolution as when input (see About the video converter on page 26).

 If this is set to something other than AUTO, PURE and 480i/576i analog signals are input, 480p/576p signals are output from the component output terminals.

- c.  $\bullet\,$  If the image doesn't match your monitor type, adjust the aspect ratio on the source component or on the monitor.
- This setting is only displayed when 480i/p or 576i/p video signals are being input.
- d.This setting is only displayed when the video signals below are being input:
  - 480i, 576i, 480p, 576p, 720p, 1080i analog video signals
- 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 1080p24 HDMI video signals
- e. This setting is valid for component outputs and HDMI output.
   This setting have the effect only for pictures recorded in the interlaced scan format (480i/576i or 1080i signals).
  - P.MOTION is disabled when PCINEMA is set to ON.
- f. You can't use this setting when the HDMI or component video signals are being input.

#### Switching the speaker terminals

If you selected **Speaker B** at *Speaker system setting* on page 111, you can switch between speakers using the **SPEAKERS** button. If you selected **Normal(SB/FH)**, **Normal(SB/FW)**, **Front Bi-Amp** or **ZONE 2**, the button will simply switch your main speaker terminals on or off. The options below are for the **Speaker B** setting only.<sup>1</sup>

### • Use SPEAKERS on the front panel to select a speaker system setting.

As mentioned above, if you have selected **Normal(SB/FH)** or **Normal(SB/FW)**, the button will simply switch your main speaker terminal (A) on or off.

Press repeatedly to choose a speaker terminal option:

- SP►A Sound is output from the A-speaker terminals (up to 7 channels (including surround back channels), depending on the source).
- SP►B Sound is output from the two speakers connected to the B-speaker terminals. Multichannel sources will not be heard.
- SP►AB Sound is output from the A-speaker terminals (up to 5 channels, depending on the source), the two speakers connected to the B-speaker terminals, and the subwoofer. The sound from the B-speaker terminals will be the same as the sound from the A-speaker terminals (multichannel sources will be downmixed to 2 channels).
- **SP**► (off) No sound is output from the speakers.

#### **Using the MULTI-ZONE controls**

The following steps use the front panel controls to adjust the sub zone volume and select sources. See *MULTI-ZONE remote controls* on page 76.

#### 1 Press MULTI-ZONE ON/OFF on the front panel.

Each press selects a MULTI-ZONE option:

- ZONE 2 ON Selects your primary (ZONE 2) sub zone
- ZONE 2&3 ON Select both sub zones
- ZONE 3 ON Selects your secondary (ZONE 3) sub zone
- MULTI ZONE OFF Switches the MULTI-ZONE feature off

The **MULTI-ZONE** indicator lights when the MULTI-ZONE control has been switched ON.

### 2 Press MULTI-ZONE CONTROL on the front panel to select the sub zone(s) you want.

If you selected **ZONE 2&3 ON** above, you can toggle between **ZONE 2** and **ZONE 3**.

#### 🔗 Note

<sup>•</sup> The subwoofer output depends on the settings you made in *Manual speaker setup* on page 110. However, if **SP** is selected above, no sound is heard from the subwoofer (the LFE channel is not downmixed).

<sup>•</sup> All speaker systems (except Speaker B connections) are switched off when headphones are connected.

• When the receiver is on,<sup>1</sup> make sure that any operations for the sub zone are done while **ZONE** and your selected sub zone(s) show in the display. If this is not showing, the front panel controls affect the main zone only.

### 3 Use the INPUT SELECTOR dial to select the source for the zone you have selected.

For example, **ZONE 2 CD-R** sends the source connected to the **CD-R** inputs to the primary (**ZONE 2**) sub room.

• If you select **TUNER**, you can use the tuner controls to select a preset station (see *Saving station presets* on page 51 if you're unsure how to do this).<sup>2</sup>

# 4 When Speaker System is set to ZONE 2, use the MASTER VOLUME dial to adjust the volume for the sub zone.

**5** When you're finished, press MULTI-ZONE CONTROL again to return to the main zone controls. You can also press MULTI-ZONE ON/OFF on the front panel to switch off all output to the sub zone(s).<sup>3</sup>

#### **MULTI-ZONE** remote controls

Set the MULTI-ZONE operation switch to **ZONE 2** or **ZONE 3** to operate the corresponding zone.

The following table shows the possible MULTI-ZONE remote controls:

Button	What it does
Q	Switches on/off power in the sub zone.
INPUT SELECT	Use to select the input function in the sub zone.
Input function buttons	Use to select the input function directly (this may not work for some functions) in the sub zone.
MASTER	Use to set the listening volume in the sub
<b>VOLUME +/-</b> (SC-LX73)	zone. <sup>a</sup>
	zone. <sup>a</sup> -

a. You can only use this button when Speaker System is set to ZONE 2.

#### Making an audio or a video recording

You can make an audio or a video recording from the built-in tuner, or from an audio or video source connected to the receiver (such as a CD player or TV).<sup>4</sup>

Keep in mind you can't make a digital recording from an analog source or vice-versa, so make sure the components you are recording to/from are hooked up in the same way (see *Connecting your equipment* on page 19 for more on connections).

Since the video converter is not available when making recordings (from the video **OUT** jacks) make sure to use the same type of video cable for connecting your recorder as you used to connect your video source (the one you want to record) to this receiver. For example, you must connect your recorder using Component video if your source has also been connected using Component video.

#### 1 Select the source you want to record.

Use the input function buttons (or **INPUT SELECT**).

#### 2 Prepare the source you want to record.

Tune to the radio station, load the CD, video, DVD etc.

### 3 Select the input signal according to the signal to be recorded.

Use the remote control's SIGNAL SEL button.

#### 4 Prepare the recorder.

Insert a blank tape, MD, video etc. into the recording device and set the recording levels. Refer to the instructions that came with the recorder if you are unsure how to do this. Most video recorders set the audio recording level automatically—check the component's instruction manual if you're unsure.

### 5 Start recording, then start playback of the source component.

#### Reducing the level of an analog signal

The input attenuator lowers the input level of an analog signal when it's too strong. You can use this if you find that the **OVER** indicator lights often or you can hear distortion in the sound.<sup>5</sup>

# • Set the remote control to the receiver operation mode, then press A.ATT to switch the input attenuator on or off.

#### 🖉 Note

1 If the receiver is in standby, the display is dimmed, and **ZONE** and your selected sub zone(s) continue to show in the display.

- 3 You won't be able to switch the main zone off completely unless you've switched off the MULTI-ZONE control first.
- If you don't plan to use the MULTI-ZONE feature for a while, turn off the power in both the sub and main rooms so that this receiver is in standby.
- 4 The receiver's volume, Audio parameters (the tone controls, for example), and surround effects have no effect on the recorded signal.
- Some digital sources are copy-protected, and can only be recorded in analog.
- Some video sources are copy-protected. These cannot be recorded.
- 5 The attenuator isn't available with digital sources, or when using the Stream Direct (ANALOG DIRECT) modes.

<sup>2</sup> The tuner cannot be tuned to more than one station at a time. Therefore, changing the station in one zone also changes the station in the other zone. Please be careful not to change stations when recording a radio broadcast.

#### Using the sleep timer

The sleep timer switches the receiver into standby after a specified amount of time so you can fall asleep without worrying about the receiver being left on all night. Use the remote control to set the sleep timer.

# • Set the remote control to the receiver operation mode, then press SLEEP repeatedly to set the sleep time.

30 min	60 min	
Off _	90 min	

• You can check the remaining sleep time at any time by pressing **SLEEP** once. Pressing repeatedly will cycle through the sleep options again.<sup>1</sup>

### Dimming the display

You can choose between four brightness levels for the front panel display. Note that when selecting sources, the display automatically brightens for a few seconds.

• Set the remote control to the receiver operation mode, then press DIMMER repeatedly to change the brightness of the front panel display.

#### Switching the HDMI output

Set which terminal to use when outputting video and audio signals from the HDMI output terminals.

The HDMI OUT1 terminal is compatible with the  $\ensuremath{\textbf{Control}}$  with HDMI function.

### • Set the remote control to the receiver operation mode, then press HDMI OUT.

Please wait a while when **Please wait** ... is displayed. The output switches among **HDMI OUT ALL**, **HDMI OUT 1** and **HDMI OUT 2** each time the button is pressed.<sup>2</sup>

### **Using the Web Control function**

The receiver can be operated using a browser from a computer connected on the same LAN as the receiver.

### 1 Turn on the computer and launch the Internet browser.

### 2 In the address bar on the browser, enter the IP address assigned to this receiver.

For example, if the IP address of this receiver is "192.168.0.2", enter "http://192.168.0.2/".

When the connection is made with the receiver, a **Top Menu** will be displayed.

This receiver's IP address can be found in the 'IP address, Proxy' menu (page 113).

### 3 Once the Top Menu is displayed, click the button for the zone you want to operate.

- 4 Operate from the screen for the individual zone.
- Even when the receiver is in the standby mode, it can be turned on using the **Web Control** function. For details, see *Network Standby* on page 114.

Pioneer		Top Mo
Web Control		
Main ZONE	ZONE 2	ZONE 3
POWER	O OFF VOLUME	-60.0dB
INPUT SELECT DVD		
LISTENING MODE STEREO		
AUTO SURR/ALC/ STREAM DIRECT HOME THX	STANDARD SURROUND	ADVANCED SURROUND STEREO

#### **Checking your system settings**

Use the status display screen to check your current settings for features such as surround back channel processing and your current MCACC preset.

1 Set the remote control to the receiver operation mode, then press STATUS to check the system settings. The front panel display shows each of the following settings for three seconds each: Input function, Sampling Frequency, MCACC preset, ZONE 2 input, ZONE 3 input and HDMI OUT.

### 2 When you're finished, press STATUS again to switch off the display.

#### 🔗 Note

<sup>1</sup> The sleep timer is valid for all zones. If any zone is on, the sleep timer continues functioning.

<sup>2 •</sup> The synchronized amp mode is canceled when the HDMI output is switched. If you wish to use the synchronized amp mode, switch to HDMI OUT 1, then select the synchronized amp mode on the TV using the TV's remote control.

<sup>•</sup> When the power is turned off then back on after switching the HDMI output, the input is set to a setting between HDMI 1 and HDMI 4, or BD.

09

#### **Resetting the system**

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this. Set **MULTI-ZONE** to **OFF**.

- Disconnect the iPod and USB memory device from the receiver beforehand.
- 1 Switch the receiver into standby.

### 2 While holding down ENTER on the front panel, press $\circlearrowright$ STANDBY/ON.

The display shows **RESET** ◄ **NO** ►.

3 Select 'RESET' using PRESET  $\leftarrow/\Rightarrow$ , then press ENTER on the front panel.

The display shows **RESET? OK**.

#### 4 Press ENTER to confirm.

**OK** appears in the display to indicate that the receiver has been reset to the factory default settings.

• Note that all settings will be saved, even if the receiver is unplugged.

#### **Default system settings**

Setting		Default
Digital Video Convers	sion	ON
SPEAKERS		A
Speaker System		Normal (SB/FH)
Speaker Setting	Front	SMALL
	Center	SMALL
	FH/FW	SMALL
	Surr	SMALL
	SB	SMALLx2
	SW	YES
Surround Position		IN REAR
Crossover		80 Hz
X-Curve		OFF
THX Audio Setting		1.2 m<
DIMMER		Medium bright
Network Standby		OFF
Inputs		
See Input function de	efault and possibl	<i>e settings</i> on page 45.
HDMI		
HDMI Audio		Amp
HDMI output		HDMI OUT ALL
Control		ON
Control Mode		ALL
DIsplay Power Off		YES

Setting		Default
DSP		
Power On Level		LAST
Volume Limit		OFF
Mute Level		FULL
Phase Control		ON
Sound Retriever	iPod/USB, HOME MEDIA GALLERY (S( LX83 only), INTERNE RADIO (SC-LX73 only), ADAPTER PORT function	
	Other functions	OFF
Sound Delay		0.0 frame
Dual Mono		CH1
DRC		AUTO
SACD Gain		0 dB
LFE Attenuate		0 dB
Auto delay		OFF
Digital Safety		OFF
Effect Level	ExtendedStereo	90
	Other modes	50
DD PL II Music	Center Width	3
Options	Dimension	0
	Panorama	OFF
Neo:6 Options	Center Image	Neo:6 MUSIC: 3 Neo:6 CINEMA: 10
All Inputs	Listening Mode (2 ch/multi ch)	AUTO SURROUND
	Listening Mode (HI	P) STEREO

See also *Setting the Audio options* on page 72 for other default DSP settings.

#### MCACC

MCACC		
MCACC Position Mem	MCACC Position Memory	
Channel Level (M1 to N	//6)	0.0 dB
Speaker Distance (M1	to M6)	3.00 m
Standing Wave (M1 to M6)	ATT of all channels/ filters	0.0 dB
SWch Wide Trim		0.0 dB
EQ Data (M1 to M6)	All channels/bands	0.0 dB
	EQ Wide Trim	0.0 dB

### Chapter 10: Controlling the rest of your system (In case of SC-LX83)

### Important

• This section includes explanations for the SC-LX83's remote control. For instructions for the SC-LX73's remote control, see *Controlling the rest of your* system (In case of SC-LX73) on page 92.

#### About the Remote Setup menu

The Remote Setup mode is set by pressing the **HOME MENU** button while pressing **MULTI OPERATION**. The different items on the Remote Setup menu are described below. For their setting procedures, refer to the explanations for the respective items.

Setting	What it does
PRESET RECALL	Preset codes can be set for the various input functions. The remote control codes of a number of other devices (including products of other brands) are preset in the remote control to allow these devices to be operated. See "Selecting preset codes directly" on page 80.
CODE LEARNING	If the desired operations cannot be performed even though you have set the preset codes, the remote control signals of other devices can be learned directly. See "Programming signals from other remote controls" on page 81.
MULTI OPERATE	A series of the remote control operations for starting listening or viewing can be programmed. Multiple remote control codes can be set for the different input functions. See "Multi Operation and System Off" on page 83.
SYSTEM OFF	This is a function for automatically turning off the power of devices connected to the receiver. Multiple remote control codes can be set, as desired. See "Multi Operation and System Off" on page 83.
DIRECT FUNC	This is a setting for changing only the remote control unit's operation screen, without changing the receiver's input, when the remote control unit's input function buttons are pressed. This is convenient for using the remote control unit for devices not connected to the receiver. See "Direct function" on page 83.
RENAME	The names of the input function buttons displayed on the remote control unit can be changed as desired. See "Renaming input function names manually" on page 82.

Setting	What it does
SYNC RENAMING	Input function names changed on the receiver can be acquired by the remote control unit so that the names are the same on the remote control unit. See "Renaming input function names in synchrony with the receiver" on page 89.
ERASE LEARNING	This function is used to erase remote control codes that have been learned. Codes learned for the different input functions can be erased individually. See "Erasing one of the remote control button settings" on page 81.
IR/RF SELECT	This function is for selecting wireless (RF) or infrared (IR) as the remote control operating mode for the different devices. See <i>Operating this receiver</i> <i>by RF communications</i> and <i>Operating other</i> <i>components by RF communications</i> on page 88.
OPERATION MODE	The remote control unit's operation screen switches automatically when the receiver's input is switched (This is only valid when the operation selector switch is set to <b>SOURCE</b> ). See "Setting the remote control operation mode" on page 90.
KEY RESET	This is a function for resetting preset codes that have been set. Key resetting can be done for individual input functions. See "Resetting the input assignment of one of the input function buttons" on page 82.
ALL RESET	This is a function for resetting all remote control unit settings you have made to the defaults set upon shipment from the factory. See "Resetting the remote control settings" on page 82.
READ PRESET ID	The preset codes set for the different input functions can be checked. See "Confirming preset codes" on page 82.
CHANGE RC MODE	If you have multiple Pioneer receivers, amplifiers, etc., this setting can be used to prevent other units from operating simultaneously when the remote control unit is operated. See "Operating multiple receivers" on page 80.
EXIT SETUP	Exits the setup menu.

### 🖉 Note

- You can cancel or exit any of the steps by press and hold **MULTI OPERATION** for a couple of seconds. To go back a step, press **RETURN**.
- After one minute of inactivity, the remote automatically exits the operation.

#### **Operating multiple receivers**

The remote control included with this receiver can be used to operate up to three other receivers (of the same model as this receiver) in addition to this receiver.<sup>1</sup> The receiver to be operated is switched by inputting the preset code to set the remote control setting.

• Set the remote modes on the receivers before using this function (see *Remote Control Mode Setup* on page 115).

1 Check that the remote control's MULTI-ZONE selector switch is set to MAIN and that the operation selector switch is set to RECEIVER.

### 2 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

3 Use  $\uparrow/\downarrow$  to select 'CHANGE RC MODE', then press ENTER.

#### 4 Use ↑/↓ to select the remote mode. RC MODE 1 to 4 can be selected.

#### 5 Press ENTER to set the remote mode.

The selected mode flashes for 3 seconds.

To operate another receiver, start over from step 1 to input its preset code.

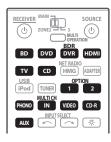
# Setting the remote to control other components

Most components can be assigned to one of the input function buttons (such as **DVD** or **CD**) using the component's manufacturer preset code stored in the remote.

However, there are cases where only certain functions may be controllable after assigning the proper preset code, or the codes for the manufacturer in the remote control will not work for the model that you are using.

If you can't find a preset code that matches the component you want to control, you can still teach the remote individual commands from another remote control (see *Programming signals from other remote controls* on page 81).

 For greater convenience, assign the TV connected to the MONITOR OUT terminal to the TV operation selector switch, and assign your satellite/cable receiver or set-top box connected to the TV input terminal to the TV input button. If a single device is connected to both terminals, that device should be assigned to both the TV operation selector switch and TV input buttons. • Devices may be assigned to the following input function buttons.



#### Selecting preset codes directly

1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows **SETUP MENU**.

2 Use  $\Uparrow/\downarrow$  to select 'PRESET RECALL', then press ENTER.

### **3** Press the input function button for the component you want to control, then press ENTER.

When assigning preset codes to **TV CONTROL**, set the remote control operation selector switch to **TV** here.

The remote display shows the component you want to control (for example **DVD** or **TV**).<sup>2</sup>

### 4 Use $\uparrow/\downarrow$ to select the first letter of the brand name of your component, then press ENTER.

This should be the manufacturer's name (for example,  ${\bf P}$  for Pioneer).

### 5 Use $\uparrow/\downarrow$ to select the manufacturer's name from the list, then press ENTER.

### 6 Use ↑/↓ to select the proper code from the list, then try using this remote with your component.

The code should start with the component type (for example, **DVD 020**). If there is more than one, start with the first one.<sup>3</sup>

To try out the remote control, switch the component on or off (into standby) by pressing **& SOURCE**. If it doesn't seem to work, select the next code from the list (if there is one).

• If you can't find or properly enter a preset code, you can still teach the remote individual commands from another remote control (see *Programming signals from other remote controls* on page 81).

### 7 If your component is controlled successfully, press ENTER to confirm.

The remote display shows OK.

#### 🔗 Note

1 This function is only valid when **RECEIVER** is set to **IR MODE** at the remote control's **IR/RF SELECT** setting (page 88). 2 You can't assign **TUNER**, **HMG NET RADIO**, **ADAPTER** and **iPod USB**.

- 3 When using a Pioneer HDD recorder, please select PIONEER DVR 450, 451 or 452.
- When using a Pioneer flat panel TV released prior to summer 2005, please select preset code 644.

# Programming signals from other remote controls

If the preset code for your component is not available, or the available preset codes do not operate correctly, you can program signals from the remote control of another component. This can also be used to program additional operations (buttons not covered in the presets) after assigning a preset code.<sup>1</sup>

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use $\Uparrow/\clubsuit$ to select 'CODE LEARNING', then press ENTER.

The remote display prompts you for the component you want to control (for example **DVD** or **TV**).

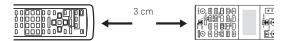
### 3 Press the input function button for the component you want to control, then press ENTER.

PRESS KEY blinks in the remote display.<sup>2</sup>

# 4 Point the two remote controls towards each other, then press the button that will be doing the learning on this receiver's remote control.

**PRESS KEY** lights continuously to indicate the remote is ready to accept a signal.

• The remote controls should be 3 cm apart.

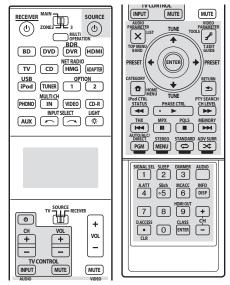


# 5 Press the corresponding button on the other remote control that is sending (teaching) the signal to this receiver's remote control.

For example, if you want to learn the playback control signal, press and hold  $\blacktriangleright$  briefly. The remote display will shows **OK** if the operation has been learned.<sup>3</sup>

If for some reasons the operation hasn't been learned the remote display will shows **ERROR** briefly, and then display **PRESS KEY** again. If this happens, keep pressing the (teaching) button as you vary the distance between the two remotes, until the remote display shows **OK**.<sup>4</sup>

Certain buttons represent operations that cannot be learned from other remote controls. The buttons available are shown below:



### 6 To program additional signals for the current component repeat steps 4 and 5.

To program signals for another component, exit and repeat steps 1 through 5.

7 Press and hold MULTI OPERATION for a couple of seconds to exit and store the operation(s).

# Erasing one of the remote control button settings

This erases one of the buttons you have programmed and restores the button to the factory default.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use $\Uparrow/\clubsuit$ to select 'ERASE LEARNING', then press ENTER.

The remote display prompts you for the component corresponding to the button setting to be erased.

#### 🖉 Note

- 1 The remote can store about 200 preset codes (this has been tested with codes of Pioneer format only).
- 2 You can't assign TUNER, HMG NET RADIO, ADAPTER and iPod USB.
- The TV CONTROL buttons (TV &, TV VOL +/-, TV CH +/-, MUTE and INPUT) can only be learned after the operation selection switch is set to TV.
- 3 Note that interference from TVs or other devices will sometimes result in the remote control learning the wrong signal.
- 4 Some commands from other remote controls cannot be learned, but in most cases the remotes just need to be moved closer together or farther apart.
  - If the remote display shows **MEMORY FULL**, it means the memory is full. See *Erasing one of the remote control button settings* on page 81 to erase a programmed button you're not using to free up more memory (note that some signals may take more memory than others).

• Depending on the type of command that has been learned, operation may not be possible with RF two-way communications. In this case, operate using IR signal transmission. For instructions on switching between the IR and RF modes, see *Operating other components by RF communications* on page 88.

**3** Press the input function button corresponding to the command to be erased, then press ENTER. The remote display flashes PRESS KEY.

4 Press and hold the button to be erased for two seconds.

The remote display shows **OK** or **NO CODE** to confirm the button has been erased.

5 Repeat step 4 to erase other buttons.

6 Press and hold MULTI OPERATION for a couple of seconds when you're done.

# Resetting the input assignment of one of the input function buttons

This procedure resets the input assignment preset at the remote control's input function button, restoring the default.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

2 Use ↑/↓ to select 'KEY RESET', then press ENTER. The remote display prompts you for the component

corresponding to the button setting to be erased.

# **3** Press the input function button for the component whose input assignment you want to reset, then press and hold ENTER for a couple of seconds.

The remote display shows **OK** when the input assignment of the remote control's input function button is reset.

#### **Resetting the remote control settings**

Use this procedure to reset all the remote control's settings to the factory default.<sup>1</sup>

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

2 Use ↑/↓ to select 'ALL RESET', then press ENTER. ALL RESET flashes in the remote display.

**3 Press and hold ENTER for about two seconds.** The remote display shows **OK** to confirm the remote presets have been erased.

#### **Confirming preset codes**

Use this feature to check which preset code is assigned to an input function button.

#### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use **↑**/↓ to select 'READ PRESET ID', then press ENTER.

The remote display prompts you for the input function button you want to check.

# 3 Press the input function button of the component for which you want to check the preset code, then press ENTER.

The brand name and preset code appears in the display for three seconds.

#### Renaming input function names manually

You can customize the names that appear on the remote display when you select an input function (for example, you could change the name of **DVR/BDR** to **DVR-LX61**).

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

2 Use **1**/**↓** to select 'RENAME', then press ENTER. The remote display prompts you for the button of the input function you want to rename.

### **3** Press the input function button you want to rename then press ENTER.<sup>2</sup>

4 Use ↑/↓ to select 'NAME EDIT', then press ENTER. To reset the button to its original (default) name, select NAME RESET above.

5 Edit the name of the input function in the remote control display, pressing ENTER when you're finished.

Use  $\uparrow/\downarrow$  to change the character and  $\leftarrow/\rightarrow$  to move forward/back a position. The name can be up to 14 characters.

#### 🖉 Note

<sup>1</sup> When Selecting preset codes directly on page 80 are set, all the signals learned in the input function buttons are cleared. This function is convenient when you want to reset some but not all of input function buttons.

<sup>2</sup> The **TV CONTROL** name can be changed when the remote control operation selector switch is switched to **TV**. To change the names of the input functions, set the remote control operation selector switch to **SOURCE**.

#### **Direct function**

#### Default setting: ON

You can use the direct function feature to control one component using the remote control while at the same time, using your receiver to playback a different component. This could let you, for example, use the remote control to set up and listen to a CD on the receiver, and then use the remote control to rewind a tape in your VCR while you continue to listen to your CD player.

When direct function is on, any component you select (using the input function buttons) will be selected by both the receiver and the remote control. When you turn direct function off, you can operate the remote control without affecting the receiver.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows **SETUP MENU**.

### 2 Use $\uparrow/\downarrow$ to select 'DIRECT FUNC', then press ENTER.

The remote display prompts you for the button of the input function you want to control.

### **3** Press the input function button for the component you want to control, then press ENTER.<sup>1</sup>

### 4 Use ↑/↓ to switch direct function ON or OFF, then press ENTER.

The remote display shows **OK** to confirm the setting.

#### **Multi Operation and System Off**

The Multi Operation feature allows you to program a series of up to 6 commands for the components in your system. For example, you could turn on your TV, turn on your DVD player and start playing the loaded DVD using only two buttons on the remote control.

Similar to multi operations, System Off allows you to use one button to stop and switch off a series of components in your system at the same time.<sup>2</sup>

### Programming a multi-operation or a shutdown sequence

Set the remote control operation mode selector switch to **RECEIVER** when you want to program this receiver's operations, to **SOURCE** when you want to program operations of other components.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use ↑/↓ to select 'MULTI OPERATE' or 'SYSTEM OFF' from the menu and press ENTER.

*If you selected Multi Operation* (**MULTI OPERATE**), the remote display prompts you for an input function button.

*If you selected System Off* (**SYSTEM OFF**), go to step 4.

# **3** Press the input function button for the component that will start the multi-operation, then press ENTER. For example, if you want to start the sequence by

switching on your DVD player, press **DVD**.

### **4** Use **↑**/↓ to select 'EDIT CODE', then press ENTER. To erase any previously stored multi-operations (or shutdown sequences) select **CLEAR CODE** above.

### 5 Use $\uparrow/\downarrow$ to select a command in the sequence, then press ENTER.

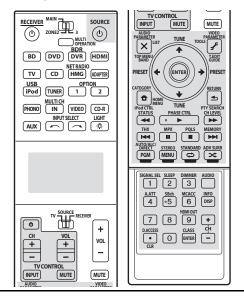
If this is the first command in the sequence, select **1ST CODE**. Otherwise, simply choose the next command in the sequence. **PRESS KEY** flashes after you press **ENTER**.

### 6 If necessary, press the input function button for the component whose command you want to input.

This is only necessary if the command is for a new component (input function).

### 7 Select the button for the command you want to input.

The following remote control commands can be selected:



#### 🖉 Note

1 You can't use direct function TUNER, HMG NET RADIO, ADAPTER and iPod USB.

- 2 Before Multi Operation and System Off will work correctly, you must setup the remote to work with your TV and other components (see *Setting the remote to control other components* on page 80 for more on this).
- Some units may take some time to power up, in which case multiple operations may not be possible.
- Power on and off commands only work with components that have a standby mode.
- Up to 5 commands can be programmed for System Off.

• You don't need to program the receiver to switch on or off. This is done automatically.

With Pioneer components, you don't need to:

• program the power to switch off in a shutdown sequence (except DVD recorders);

These take priority in multi operations (not shutdown).

### 8 Repeat steps 5 to 7 to program a sequence of commands.

### 9 When you're finished, use $\uparrow/\downarrow$ to select 'EDIT EXIT' from the menu and press ENTER.

You will return to the remote control Setup menu. Select **EXIT SETUP** to exit.

#### Using multi operations

You can start multi operations with the receiver switched on, or in standby.

RECEIVER () ZONE2 3 3 () OPERATION SOURCE
BD DVD BDR HDMI
USB OPTION
USB     OPHON       iPod     TUNER       1     2       MULTICH

#### 1 Press MULTI OPERATION.

MULTI OPERATE flashes in the display.

### 2 Press an input function button that has been set up with a multi operation.

The receiver switches on (if it was in standby) and the programmed multi operation is performed automatically.<sup>1</sup>

#### **Using System off**

RECEIVER MAIN CONE2 3 SOURCE 3 CONE2 3 CONE2
BD DVD DVR HDMI
TV CD HMG ADAPTER
USB OPTION IPod TUNER 1 2
MULTI CH

#### 1 Press MULTI OPERATION.

MULTI OPERATE flashes in the display.

#### 2 Press 🖒 SOURCE.

The command sequence you programmed will run, then all Pioneer components will switch off<sup>2</sup>, followed by this receiver.<sup>3</sup>

#### 🖉 Note

- 1 With this remote control, the IR and RF modes can be selected separately for the individual input functions. To perform a multi operation on a device (input function) for which the IR mode is selected, point the remote control toward the remote sensor on that device.
- 2 In order to avoid accidently switching off a DVD recorder that is currently recording, no DVD recorder power off codes are sent.

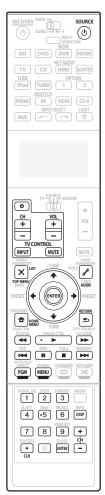
3 • With this remote control, the IR and RF modes can be selected separately for the individual input functions. To turn off the power of a device (input function) for which the IR mode is selected using the System Off function, point the remote control toward the remote sensor on that device. When the power code of another brand is registered, the owner on/off operation may be inverted. When using the System Off function for a

• When the power code of another brand is registered, the power on/off operation may be inverted. When using the System Off function for a multi operation including the power codes of other brands, always check that the power of all the components has turned off.

#### **Controlling components**

This remote control can control components after entering the proper codes (see *Selecting preset codes directly* on page 80). Set the remote control operation selector switch to **SOURCE**, then press the input function buttons to select the component.

 TV CONTROL on the remote control are dedicated to control the TV assigned to the TV operation selector switch. If you have two TVs, assign the main TV to the TV operation selector switch.



Button(s)	TV	TV (Monitor)	BD/DVD	HDD/DVR	VCR	SAT/CATV
් SOURCE	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF
Number buttons	numerics	numerics	numerics	numerics	numerics	numerics
• (dot)	• (dot)	KURO LINK	CLEAR	+	-	*
ENTER (CLASS)	CH ENTER	CH ENTER	ENTER	CLEAR	-	ENTER
×	EXIT/INFO	EXIT	TOP MENU	TOP MENU/ DISC NAVI	-	LIST
£	TOOLS/GUIDE	USER MENU	TOOLS <sup>a</sup>	GUIDE	-	GUIDE
<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	-	<b>↑</b> /↓/←/→
ENTER	ENTER	ENTER	ENTER	ENTER	-	ENTER
<b>₽</b>	HOME MENU	HOME MENU	HOME MENU	HOME MENU	-	HOME
_	RETURN	RETURN	RETURN	RETURN	-	RETURN
PGM (Red)	Red	Red	-	HDD/DVD	-	Red
MENU (Green)	Green	Green	-	MENU	-	Green
🖨 (Yellow)	Yellow	Yellow	-	VCR	-	Yellow
🗙 (Blue)	Blue	Blue	MENU	TV/DTV	-	Blue
•	-	-	•	•	•	•
11	-	AUTO SETUP	11	11	11	C/II
	-	FREEZE				D/■
44	-	-	44	44	44	A/ <b>∢</b> ◄
••	-	-	••	••	••	••
	ANT	AV SELECTION	H4		H4	B/I <b>◄◄</b>
	-	SCREEN SIZE				E/>>
AUDIO	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
DISP	DISPLAY	DISPLAY	DISPLAY	DISPLAY	-	DISPLAY/INFO
CH +/-	CH+/-	CH+/-	OUTPUT RESOLUTION +/- <sup>a</sup>	CH+/-	CH+/-	CH+/-
	-	-	-	-	-	RECORD

a.Controls for BD.

Button(s)	LD	CD/CD-R/SACD	MD/DAT	TAPE	Button(s)	TV (Projecto
් SOURCE	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	් SOURCE	POWER ON
Number buttons	numerics	numerics	numerics	-	1	MOVIE
• (dot)	+10	>10/CLEAR	CLEAR <sup>a</sup>	CLEAR	2	STANDARD
ENTER	ENTER	DISC/ENTER	-	ENTER	3	DYNAMIC
(CLASS)					4	USER1
×	TOP MENU	-	-	-	5	USER2
£	-	LEGATO LINK <sup>b</sup>	-	-	6	USER3
_					7	COLOR+
<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	-	-	<b>II/■/◀◀/►►</b>	8	SHARP+
ENTER	ENTER	-	-		9	GAMMA
<b>a</b>	-	SACD SETUP <sup>b</sup>	-	-	0	COLOR-
<b>●</b>	RETURN	-	_	-	• (dot)	SHARP-
PGM (Red)	-	PROGRAM	-	-	ENTER (CLASS)	COLOR TEMP
🗘 (Yellow)	-	REPEAT	-	-	×	EXIT
🗙 (Blue)	-	SHUFFLE	-	-	£	INFO
▶	•	•	•	•		
11	11	11	11	11	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→
					ENTER	ENTER
<b>44</b>	••				•	TEST
<b>&gt;&gt;</b>	••	<b>&gt;&gt;</b>	••	••	<b>€</b> 1	HIDE
			I <b>⊲⊲</b> /MS <sup>_c</sup>		*	MENU
			►►I/MS+ <sup>c</sup>		44	HDMI1
AUDIO	AUDIO	PURE AUDIO <sup>b</sup>	-	-	•	HDMI2
DISP	DISPLAY/INFO	TIME <sup>b</sup>	-	-	••	COMP.
	•	•				VIDEO

BRIGHT-

BRIGHT+

ASPECT

POWER OFF

CONTRAST+/-

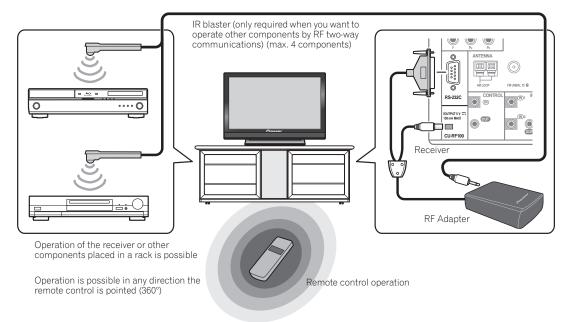
AUDIO

CH +/-

DISP

b.Controls for SACD. c.Controls for DAT.

### Using the RF communications function



With this receiver, two-way communications between the receiver and remote control are possible by connecting the included RF adapter to the RS-232C and CU-RF100 terminals. For instructions on connecting the RF adapter, see *Connecting the RF adapter (SC-LX83 only)* on page 20. Two-way communications allow you to use the following functions:

- The receiver can be operated by pointing the remote control in any direction (360°) (maximum line-of-sight distance for two-way communications: about 10 meters).
- Operate is possible without being affected by obstacles (even products in racks can be operated).
- The information shown on the receiver's display can be displayed on the remote control's display as you operate.
- RF communications can be used to operate up to 4 other components connected to the receiver (using the included IR blaster. For details, see *Operating* other components by RF communications on page 88).
- The remote control input display names can be synchronized with the input names changed at **Input Name** on the receiver's **Input Setup** menu (page 44) and acquired automatically. For details, see *Renaming input function names in synchrony with the receiver* on page 89.

• When the receiver's input is switched, the remote control's display and operating mode switch to that input automatically. For details, see *Setting the remote control operation mode* on page 90.

### 🚯 Important

- The line-of-sight communications distance is a rough indication, and may differ according to the surrounding environment.
- Depending on the communications environment, functions using two-way communications between the receiver and remote control may not operate properly. For details, including cautions on the communications environment and usage procedure, etc., see *Precautions when using the Omni-Directional RF Remote Control* on page 90.

### 🖉 Note

• You can cancel or exit any of the steps by press and hold **MULTI OPERATION** for a couple of seconds. To go back a step, press **RETURN**.

#### Pairing the RF adapter and remote control

Pairing is necessary in order to use the RF communications function. Perform the operation below after connecting the RF adapter and receiver.

1 Switch on the receiver.

### 2 Set the RF Remote Setup on this receiver's Other Setup menu to ON.

For details, see *RF Remote Setup (SC-LX83 only)* on page 116.

### **3** Press the SETTING button on the front of the RF adapter.

RF adapter's LED blinks red.

### 4 While pressing MULTI OPERATION, press VIDEO PARAMETER on the remote control.

The remote display shows PAIRING.

#### 5 Press ENTER on the remote control.

**AUTHORIZATION** flashes and pairing is performed. When pairing is successful, **SUCCESS** is displayed and pairing is completed. RF adapter's LED lights green.

If **ERROR** is displayed, pairing has not been successful. Check the connections and distance with the RF adapter, then start over from step 1.

The remote control unit's receiver operation mode must be set to "RF" in order to operate the receiver with RF twoway communications. Make this setting as described at *Operating this receiver by RF communications* below.

# Operating this receiver by RF communications

Use this procedure to make the remote control settings to operate the receiver using RF two-way communications. The settings can be made individually for the main zone, ZONE 2 and ZONE 3. Connect the receiver and RF adapter and pair the RF adapter and remote control unit beforehand.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use $\uparrow/\downarrow$ to select 'IR/RF SELECT', then press ENTER.

Check that the units are paired. If **RECEIVER MAIN** is displayed, pairing has been performed properly, so proceed to step 3. If **RF MODE ONLY** flashes, pairing has not been performed properly, so perform this procedure again after performing pairing (see *Pairing the RF adapter and remote control* on page 88).

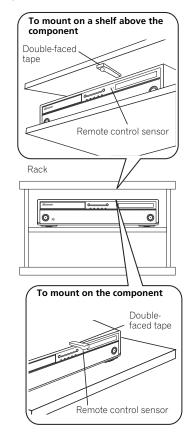
3 Use  $\uparrow/\downarrow$  to select the receiver zone for which you want to use RF two-way communications, then press ENTER.

4 Use ↑/↓ to select 'RF MODE', then press ENTER.<sup>1</sup> Select IR MODE to return to operation by infrared signal.

5 If you want to operate other zones with RF twoway communications, repeat steps 3 and 4.

#### Operating other components by RF communications

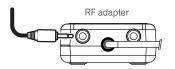
Up to 4 other components connected to the receiver can be operated by RF communications. Use the IR blaster to communicate between the RF adapter and other components, and switch the remote control's setting to RF. The remote control's setting can be switched individually for each input.



#### 🖉 Note

T When **RECEIVER** is selected and **RF MODE** is set at step 3, **HMG NET RADIO**, **ADAPTER**, **iPod USB** and **TUNER** are automatically set to the RF mode. Note that **RF MODE** cannot be set for **OPTION 1** and **OPTION 2**.

1 Connect the IR blaster cable to the RF Adapter's IR Blaster terminal and mount the transmitter on the component you want to operate with RF communications.



- Operation is not possible unless the IR blaster is mounted in an appropriate position. Whenever possible, mount it above the other component's remote control sensor. If mounted below, the influence of external light, etc., could hamper reception.
- Mount the IR blaster securely to a position near the other component's remote control sensor. For the location of the other component's remote control sensor, see the component's operating instructions.
- Clean any dirt or dust off the place at which the double-faced tape is to be attached beforehand.
- Note that the double-faced tape is strong, and that trying to peel it off the shelf, etc., after it has been applied may damage the shelf's surface.

### 2 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 3 Use $\uparrow/\downarrow$ to select 'IR/RF SELECT', then press ENTER.

Check that the units are paired. If **RECEIVER MAIN** is displayed, pairing has been performed properly, so proceed to step 4. If **RF MODE ONLY** flashes, pairing has not been performed properly, so perform this procedure again after performing pairing (see *Pairing the RF adapter and remote control* on page 88).

# 4 Use $\uparrow/\downarrow$ to select input function for the component you want to operate using RF communications, then press ENTER.

Select the input component to which the IR blaster was mounted in step 1.

#### 5 Use **†**/**↓** to select 'RF MODE', then press ENTER. Select **IR MODE** to return to operation by infrared signal.

6 If other input function buttons also switch to RF communications operation, repeat step 4 to 5.

### 7 Press and hold MULTI OPERATION for a couple of seconds to exit and store the operation(s).

# Renaming input function names in synchrony with the receiver

• Default setting: MANUAL

The remote control input display names can be synchronized with the input names that have been changed at **Input Name** on the receiver's **Input Setup** menu (page 44) and acquired automatically. There are two modes: **AUTO** in which the receiver's input names are acquired automatically each time the input is switched, and **MANUAL** in which the receiver's input names are only acquired for input functions selected manually. Even when input names are changed manually at *Renaming input function names manually* on page 82, when synchro renaming is performed here, the input name is overwritten.

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use $\uparrow/\downarrow$ to select 'SYNC RENAMING', then press ENTER.

MANUAL flashes in the remote display.<sup>1</sup>

### 3 Use $\uparrow/\downarrow$ to select 'AUTO' or 'MANUAL', then press ENTER.

If you selected **AUTO**, this completes the setting. The receiver's input names are acquired automatically in synchrony with the receiver each time the remote control's input is switched. Proceed to step 7.

If you selected MANUAL, go to step 4.

# 4 Press the input function button for the component whose receiver input name you want to acquire, then press ENTER.<sup>2</sup>

The receiver's input name is acquired. After **PLEASE WAIT** is displayed, the receiver's input name flashes. If the name has not been changed at **Input Name** on the receiver's **Input Setup** menu (page 44), **NO CHANGE** flashes.

### 5 Press ENTER to enter the input name displayed on the remote control.

**COMPLETE** is displayed and the input name is registered.

### 6 To acquire the receiver input names for other input function buttons, repeat step 4 to 5.

### 7 Press and hold MULTI OPERATION for a couple of seconds to exit and store the operation(s).

#### 🖉 Note

 $\ensuremath{\text{2}}$  The  $\ensuremath{\text{HDMI}}$  input function button is not supported.

<sup>1</sup> If **RF MODE ONLY** flashes, pairing has not been performed properly or **RECEIVER** may be set to **IR MODE** at the remote control's **IR/RF SELECT** setting. In this case, perform pairing, then switch **RECEIVER** to **RF MODE** at the remote control's **IR/RF SELECT** setting. For details, see *Pairing* the *RF adapter and remote control* on page 88 and *Operating this receiver by RF communications* on page 88.

# Setting the remote control operation mode

• Default setting: ON

When the remote control operation mode is turned on and the receiver's input is switched, the remote control display and operation mode switch automatically to that input. Select **OFF** if you do not want the remote control's function to switch automatically when the receiver's input is switched.<sup>1</sup>

### 1 While pressing MULTI OPERATION, press HOME MENU.

The remote display shows SETUP MENU.

### 2 Use $\uparrow/\downarrow$ to select 'OPERATION MODE', then press ENTER.

Check that the units are paired. If **SYNCHRO ON** is displayed, pairing has been performed properly, so proceed to step 3. If **RF MODE ONLY** flashes, pairing has not been performed properly, so perform this procedure again after performing pairing (see *Pairing the RF adapter and remote control* on page 88).

### 3 Use $\uparrow/\downarrow$ to select 'SYNCHRO ON' or 'SYNCHRO OFF', then press ENTER.

The remote display shows **OK** to confirm the setting.

4 Press and hold MULTI OPERATION for a couple of seconds to exit and store the operation(s).

#### Precautions when using the Omni-Directional RF Remote Control

#### **Precautions regarding wavelength**

• This remote control is designed to prevent other persons from eavesdropping on the transmitted signals, but precautions should nonetheless be taken against the chance that other persons' could intercept and listen to the signals transmitted. Given that this remote control produces radio wave transmissions, another person could deliberately use a receiver to attempt to intercept such transmissions. As a result, this device should not be used to play important transmissions demanding privacy.

This remote control utilizes the 2.4 GHz frequency band. This band is also used by a variety of other devices as noted below. In particular, devices not often cognizant to the user are listed in item 2.

### 1 Examples of common devices utilizing the 2.4 GHz band:

- Cordless phone
- Cordless facsimile
- Microwave oven
- Wireless LAN router
- Wireless AV device
- · Wireless controllers for games
- Microwave therapeutic devices
- Bluetooth wireless technology devices

#### 2 Other devices using 2.4 GHz:

- Shoplifting-prevention systems
- Amateur wireless radio
- Distribution control systems at factories and warehouses
- Railway and emergency vehicle wireless identification systems

When such devices are used simultaneously with this remote control, signal interference may occur, resulting in signal dropouts.

To improve reception quality, try the following:

- Turn off the other device emitting radio waves.
- Place the interfering device farther away (Move both the remote control and RF adapter away from the interfering device).

Do not use this remote control in the following locations, since transmission interruption may result:

- Locations where another device using the same 2.4 GHz frequency is being used, such as a Bluetooth wireless technology device or wireless LAN, or in the vicinity where the magnetic field, static electricity, or radio wave interference from another device may occur (depending on the environment, radio waves may not transmit effectively).
- Move the radio farther away.
- If visual noise appears on the television screen, it is possible that this remote control is producing adverse influence on the antenna input of the television, video device, BS tuner, or CS tuner. Move this remote control farther away from the antenna input of the affected device.

#### 🔗 Note

<sup>1 •</sup> When the remote control's input is switched, the receiver's input also switches, but for functions for which the remote control direct function (page 83) is set to off, when the remote control's input is switched, the receiver's input does not switch and only the remote control unit's operating screen switches.

<sup>•</sup> The remote control operation mode is only valid when the remote control operation selector switch is set to SOURCE.

#### **Usable range**

• Designed for use only within private homes (signal transmission distance may be reduced due to room design or conditions).

In the following cases, this remote control cannot operate due to poor or erratic radio wave transmission.

- When signal transmission is blocked by a wall or floor constructed of ferro-concrete or metal.
- Nearby large metal furniture objects.
- In large crowds of people, or near obstructive buildings.
- Locations where another device using the same 2.4 GHz frequency is being used, such as a *Bluetooth* wireless technology device or wireless LAN, or in the vicinity where the magnetic field, static electricity, or radio wave interference from another device may occur.
- When living in a housing complex (apartment, condominium, etc.) where the next-door unit has a microwave oven located near to this remote control. Note that even a microwave oven will not interfere with this remote control when not in use.
- When using multiple Omni-Directional RF Remote Control in the same location.

#### Signal reflection

 The signals reaching the remote control include those transmitted in a straight line from the main unit (direct waves), and those that are received after being bounced off of walls, furniture, and other buildings (reflected waves).

As a result, reflected waves can be generated by obstacles and other reflective objects, causing variations in the signal quality. In such cases, try slightly changing the position of the remote control.

### 

• With the exception of cases determined by law to be the subject of legal liability, Pioneer refuses all responsibility for any harm resulting to the customer or other person as a result of the use of this remote control.

#### For safe use

 Do not use near electronic devices utilizing highprecision or very delicate radio waves, since the other device may operate incorrectly, resulting in malfunction.

Examples of devices requiring particular caution:

 Hearing aids, pacemakers and other medical or therapeutic electronic devices, fire/smoke detectors, automatic door openers, other automatic devices.

- Persons using pacemakers or other medical or therapeutic electronic devices should consult the manufacturer or dealer of their device regarding the potential effects of radio waves from this remote control.
- Do not use in aircraft, hospitals, or other locations where the use of radio-wave-generating devices is prohibited, since adverse affects may be caused to flight communications equipment or medical devices. Follow all precautions and directives given by medical institutions.

# Controlling the rest of your system (In case of SC-LX73)

### Important

• This section includes explanations for the SC-LX73's remote control. For instructions for the SC-LX83's remote control, see *Controlling the rest of your* system (In case of SC-LX83) on page 79.

#### About the Remote Setup menu

The Remote Setup mode is set by pressing the number button while pressing **R.SETUP**. The different items on the Remote Setup menu are described below. For their setting procedures, refer to the explanations for the respective items.

Setting	What it does
Preset recall	Preset codes can be set for the various input functions. The remote control codes of a number of other devices (including products of other brands) are preset in the remote control to allow these devices to be operated. See "Selecting preset codes directly" on page 93.
Code learning	If the desired operations cannot be performed even though you have set the preset codes, the remote control signals of other devices can be learned directly. See "Programming signals from other remote controls" on page 93.
Multi operation	A series of the remote control operations for starting listening or viewing can be programmed. Multiple remote control codes can be set for the different input functions. See "Multi operation and System off" on page 95.
System off	This is a function for automatically turning off the power of devices connected to the receiver. Multiple remote control codes can be set, as desired. See "Multi operation and System off" on page 95.
Direct function	This is a setting for changing only the remote control unit's operation screen, without changing the receiver's input, when the remote control unit's input function buttons are pressed. This is convenient for using the remote control unit for devices not connected to the receiver. See "Direct function" on page 94.
Erase learning	This function is used to erase remote control codes that have been learned. Codes learned for the different input functions can be erased individually. See "Erasing one of the remote control button settings" on page 94.
Back light	The backlight lighting pattern can be selected from among four modes, in consideration of convenience and battery service life. See "Setting the backlight mode" on page 95.

Setting	What it does
Reset function	This is a function for resetting preset codes that have been set. Key resetting can be done for individual input functions. See "Erasing all learnt settings that are in one input function" on page 94.
All reset	This is a function for resetting all remote control unit settings you have made to the defaults set upon shipment from the factory. See "Resetting the remote control settings" on page 97.
Change RC mode	If you have multiple Pioneer receivers, amplifiers, etc., this setting can be used to prevent other units from operating simultaneously when the remote control unit is operated. See "Operating multiple receivers" on page 92.

### 🕖 Note

- You can cancel or exit any of the steps by pressing **R.SETUP**.
- After one minute of inactivity, the remote automatically exits the operation.

### **Operating multiple receivers**

Up to four receivers can be operated discretely using this receiver's remote control when using multiple receivers, provided they are of the same model as this receiver. The receiver to be operated is switched by inputting the preset code to set the remote control setting.

• Set the remote modes on the receivers before using this function (see *Remote Control Mode Setup* on page 115).

### 1 Press and hold R.SETUP, then press "4" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

#### 2 Press the number button for the receiver ("Receiver 1" to "Receiver 4") you wish to operate.

For example, to operate "Receiver 2", press "2".

If the LED lights for one second, the setting has been successfully completed.

When the preset code is input, the LED flashes three times to indicate that the setting has failed.

# Setting the remote to control other components

Most components can be assigned to one of the input function buttons (such as **DVD** or **CD**) using the component's manufacturer preset code stored in the remote.

However, there are cases where only certain functions may be controllable after assigning the proper preset code, or the codes for the manufacturer in the remote control will not work for the model that you are using.

If you can't find a preset code that matches the component you want to control, you can still teach the remote individual commands from another remote control (see *Programming signals from other remote controls* on page 93).

- For greater convenience, assign the TV connected to the MONITOR OUT terminal to the TV CTRL button, and assign your satellite/cable receiver or set-top box connected to the TV input terminal to the TV input button. If a single device is connected to both terminals, that device should be assigned to both the TV CTRL and TV input buttons.
- Devices may be assigned to the following input function buttons.

If the LED lights for one second, the setting has been successfully completed.

When the preset code is fully input, the LED flashes three times to indicate that the setting has failed. If this happens, enter the 4-digit preset code again.

### 4 Repeat steps 2 through 3 for the other components you want to control.

To try out the remote control, switch the component on or off (into standby) by pressing **O SOURCE**. If it doesn't seem to work, select the next code from the list (if there is one).

5 Press R.SETUP to exit the preset setup mode.

# Programming signals from other remote controls

If the preset code for your component is not available, or the available preset codes do not operate correctly, you can program signals from the remote control of another component. This can also be used to program additional operations (buttons not covered in the presets) after assigning a preset code.<sup>1</sup>

Certain buttons represent operations that cannot be learned from other remote controls. The buttons available are shown below:



### Selecting preset codes directly

### 1 Press and hold R.SETUP, then press "1" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

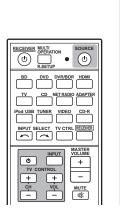
### 2 Press the input function button for the component you want to control.

When assigning preset codes to **TV CONTROL**, press **TV CTRL** here.

The LED blinks once and flashes continuously.

### 3 Use the number buttons to enter the 4-digit preset code.

See Preset code list (SC-LX73 only) on page 134.





### 1 Press and hold R.SETUP, then press "2" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

### 2 Press the input function button for the component you want to control.

The LED blinks once and flashes continuously.

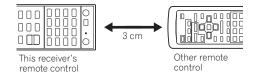
#### 🖉 Note

The remote can store about 120 preset codes from other components (this has been tested with codes of Pioneer format only).

# **3** Point the two remote controls towards each other, then press the button that will be doing the learning on this receiver's remote control.

The LED blinks once and flashes continuously.

• The remote controls should be 3 cm apart.



# 4 Press the corresponding button on the other remote control that is sending (teaching) the signal to this receiver's remote control.

If the LED lights for one second, the setting has been successfully completed.<sup>1</sup>

### 5 To program additional signals for the current component repeat steps 3 and 4.

To program signals for another component, exit and repeat steps 2 through 4.

#### 6 Press R.SETUP to exit the programming mode.

# Erasing one of the remote control button settings

This erases one of the buttons you have programmed and restores the button to the factory default.

### 1 Press and hold R.SETUP, then press "7" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

### 2 Press the input function button corresponding to the command to be erased, then press ENTER.

The LED flashes once.

### 3 Press and hold the button to be erased for three seconds.

If the LED lights for one second, the erasing has been successfully completed.

#### 4 Repeat step 3 to erase other buttons.

5 Press R.SETUP to exit the erasing mode.

# Erasing all learnt settings that are in one input function

This operation erases all the operational settings of other devices that have been programmed in one input function, and restores the factory default.

This function is handy for erasing all data programmed for devices no longer being used.

### 1 Press and hold R.SETUP, then press "9" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

# 2 Press and hold the input function button corresponding to the command to be erased for three seconds.

If the LED lights for one second, the erasing has been successfully completed.

### **Direct function**

#### • Default setting: On

You can use the direct function feature to control one component using the remote control while at the same time using your receiver to play a different component. This could let you, for example, use the remote control to set up and listen to a CD on the receiver, and then use the remote control to rewind a tape in your VCR while you continue to listen to your CD player.

When direct function is on, any component you select (using the input function buttons) will be selected by both the receiver and the remote control. When you turn direct function off, you can operate the remote control without affecting the receiver.

### 1 Press and hold R.SETUP, then press "5" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press R.SETUP.

### 2 Press the input function button for the component you want to control.

### 3 Press "1" (On) or "0" (Off) to switch the direct function mode.

If the LED lights for one second, the setting has been successfully completed.

If the LED flashes three times, the setting has failed.

4 Press R.SETUP to exit the setup.

- Some commands from other remote controls cannot be learned, but in most cases the remotes just need to be moved closer together or farther apart.
- If the LED flashes for five seconds, it means the memory is full. See *Erasing all learnt settings that are in one input function* on page 94 to erase a programmed button you're not using to free up more memory (note that some signals may take more memory than others).

<sup>🖉</sup> Note

<sup>1 •</sup> Note that interference from TVs or other devices will sometimes result in the remote control learning the wrong signal.

#### Setting the backlight mode

• Default setting: 1 (normal mode)

The backlight lighting pattern can be selected from among four modes, in consideration of convenience and battery service life.

### 1 Press and hold R.SETUP, then press "6" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

### 2 Press the number button for the backlight mode you want to set.

- "1" (normal mode) The backlight is turned on and off with the light button. After it lights, it turns off automatically if no operation is performed for 10 seconds.
- "2" (frequent lighting mode) The backlight turns on when any button on the remote control is pressed. It is turned off with the light button. After it lights, it turns off automatically if no operation is performed for 10 seconds.
- "3" (eco mode) The backlight is turned on and off with the light button. After it lights, it turns off automatically if no operation is performed for 5 seconds.
- "4" (off mode) The backlight does not turn on even when the light button is pressed.

If the LED lights for one second, the setting has been successfully completed.

If the LED flashes three, the setting has failed.

#### 3 Press R.SETUP to exit the setup.

#### Multi operation and System off

The Multi operation feature allows you to program a series of up to 5 commands for the components in your system.

• Be sure to call up the preset codes of devices or perform programming signals for other remote controls before multi operation memory programming (page 93).

The Multi operation feature makes it easy to perform the following operations by pressing just two buttons.

### Press **MULTI OPERATION** and then the **DVD** input function button to:

- 1. Switch this receiver on.
- 2. Switch this receiver's input to DVD.

3. Transmit a sequence of up to five programmed commands.

Similar to Multi operations, System off allows you to use two buttons to stop and switch off a series of components in your system at the same time.<sup>1</sup> Only one System off operation sequence may be programmed.

#### Press MULTI OPERATION and then & SOURCE to:

1. Transmit a sequence of up to five programmed commands.

2. Switch off all Pioneer devices including the receiver (except DVD recorders and VCRs).

For greater convenience, program this receiver to perform power on/off and playback operations on non-Pioneer devices as well.<sup>2</sup> (The signals for Pioneer devices described above are not contingent on programming for non-Pioneer devices.)

The buttons that can be programmed using Multi operation or System off are the same buttons as those that can be programmed for other remote controls (see *Programming signals from other remote controls* on page 93).

#### 🔗 Note

<sup>1 •</sup> Before Multi operation and System off will work correctly, you must setup the remote to work with your TV and other components (see Setting the remote to control other components on page 93 for more on this).

<sup>•</sup> Some units may take some time to power up, in which case multiple operations may not be possible.

<sup>•</sup> Power on and off commands only work with components that have a standby mode.

<sup>2</sup> Some remote controllers for other manufacturers' devices use the same signals for switching the power on and off. In some cases, even if this receiver is programmed to perform these commands, power to the non-Pioneer devices may not be switched on and off correctly. Program the receiver to perform these commands if the non-Pioneer device uses separate signals for power on/off.

### Programming a Multi operation or a shutdown sequence

### 1 Press and hold R.SETUP, then press "3" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

### 2 Press the input function button (or $\ensuremath{\textcircled{}}$ SOURCE button).

*For Multi operations*, press the input function you wish to program (for example, if you want to start the sequence by switching on your DVD player, press **DVD**).<sup>1</sup>

For System off, press the O SOURCE button.

The LED blinks twice and flashes continuously.

### 3 If necessary, press the input function button for the component whose command you want to input.

This is only necessary if the command is for a new component (input function).

### 4 Select the button for the command you want to input.

The LED blinks once and flashes continuously.

• You don't need to program the receiver to switch on or off. This is done automatically.

With Pioneer components, you don't need to program the power to switch off in a shutdown sequence (except DVD recorders).

### 5 Repeat steps 3 to 4 to program a sequence of up to five commands.

If you press **R.SETUP** before programming is completed, commands programmed up to that point will be stored.

#### 6 Press R.SETUP to exit the programming mode.

#### Using multi operations

#### 1 Press MULTI OPERATION.

The LED flashes continuously.

### 2 Within five seconds, press an input function button that has been set up with a multi operation.

The receiver switches on (if it was in standby) and the programmed multi operation is performed automatically.

#### Using System off

#### 1 Press MULTI OPERATION.

The LED flashes continuously.

#### 2 Within five seconds, press $\bigcirc$ SOURCE.

The command sequence you programmed will run, then all Pioneer components will switch off<sup>2</sup>, followed by this receiver (switch of all the zones becomes off).

#### Erasing the settings for the multi-operation

This erases all the settings programmed in the remote control for the multi-operation.

### 1 Press and hold R.SETUP, then press "8" for three seconds.

The LED flashes continuously.

• To cancel the preset setup mode press **R.SETUP**.

# 2 Press the input function button containing the program you want to cancel or the $\odot$ SOURCE button for three seconds.

If the LED lights for one second, the erasing has been successfully completed.

#### 🔗 Note

<sup>1</sup> With Multi operation, the **HDMI** and **TV CTRL** settings cannot be made. For other settable input functions, see *Setting the remote to control other components* on page 93.

<sup>2</sup> In order to avoid accidently switching off a DVD recorder that is currently recording, no DVD recorder power off codes are sent.

### Resetting the remote control settings

Use this procedure to reset all the remote control's settings to the factory default.<sup>1</sup>

1 Press and hold R.SETUP, then press "0" for three seconds.

The LED flashes continuously.

**2 Press and hold the ENTER button for three seconds.** If the LED lights for one second, the erasing has been successfully completed.

#### Default preset codes

Input function button	Preset code
DVD	2246
BD	2248
DVR/BDR	2238
HDMI	2247
TV	0186
CD	5066
CD-R	5067
VIDEO	1077
TV CTRL	0186

#### **Controlling components**

This remote control can control components after entering the proper codes (see *Setting the remote to control other components* on page 93 for more on this). Use the input function buttons to select the component.

 The TV CONTROL buttons on the remote control are dedicated to control the TV assigned to the TV CTRL button. If you have two TVs, assign the main TV to the TV CTRL button.



#### 🔗 Note

1 When preset codes are set, all the signals learned in the input function buttons are cleared. This function is convenient when you want to reset some but not all of input function buttons.

Button(s)	TV	TV (Monitor)	BD/DVD	HDD/DVR	VCR	SAT/CATV
් SOURCE	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF
Number buttons	numerics	numerics	numerics	numerics	numerics	numerics
• (dot)	• (dot)	KURO LINK	CLEAR	+	-	*
ENTER (CLASS)	ENTER	CH ENTER	ENTER	ENTER	-	ENTER
×	EXIT/INFO	EXIT	TOP MENU	TOP MENU	-	LIST
£	TOOLS/GUIDE/ EPG	USER MENU	TOOLS	GUIDE	-	GUIDE
<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	-	<b>↑</b> /↓/←/→
ENTER	ENTER	ENTER	ENTER	ENTER	-	ENTER
•	HOME MENU	HOME MENU	HOME MENU	HOME MENU	-	HOME / MENU
<b>●</b>	RETURN	RETURN	RETURN	RETURN	-	RETURN
HDD (Red)	Red	Red	-	HDD	-	Red
DVD (Green)	Green	Green	-	DVD	-	Green
🗘 (Yellow)	Yellow	Yellow	-	VCR	-	Yellow
🗙 (Blue)	Blue	Blue	MENU	MENU	-	Blue
►	-	-	•	•	►	•
11	-	AUTO SETUP	11	11	11	11
	-	FREEZE				
<b>44</b>	-	-				
••	-	-	••	••	••	••
	TV/DTV	AV SELECTION	<b>I</b>	<b>H4</b>	-	H4
	-	SCREEN SIZE			-	
AUDIO	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
DISP	DISPLAY	DISPLAY	DISPLAY	DISPLAY	-	DISPLAY/INFO
CH +/-	CH+/-	CH+/-	OUTPUT RESOLUTION +/ <sup>a</sup>	CH+/-	CH+/-	CH+/-

a. Controls for BD.

Button(s)	LD	CD/CD-R/SACD	MD/DAT	TAPE
් SOURCE	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF	POWER ON/OFF
Number buttons	numerics	numerics	numerics	-
• (dot)	+10	>10/CLEAR	CLEAR <sup>b</sup>	CLEAR
ENTER (CLASS)	ENTER	DISC/ENTER	OPEN/CLOSE <sup>b</sup>	ENTER
×	TOP MENU	-	-	MS←
£	-	LEGATO LINK <sup>a</sup>	-	MS→
<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→	-	-	II/■/◀◀/►►
ENTER	ENTER	-	-	-
•	-	SACD SETUP <sup>a</sup>	-	-
●	RETURN	-	-	-
•	•	•	•	►
П	11	11	11	11
44	44	44		••
••	••	••	••	••
◄◀		<b>I</b>	<b>I</b>	
	▶▶			
AUDIO	AUDIO	PURE AUDIO <sup>a</sup>	-	-
DISP	DISPLAY/INFO	TIME <sup>a</sup>	-	-

Button(s)	TV (Projector)
් SOURCE	POWER ON
1	MOVIE
2	STANDARD
3	DYNAMIC
4	USER1
5	USER2
6	USER3
7	COLOR+
8	SHARP+
9	GAMMA
0	COLOR-
• (dot)	SHARP-
ENTER (CLASS)	COLOR TEMP
×	EXIT
£	INFO
<b>↑</b> /↓/←/→	<b>↑</b> /↓/←/→
ENTER	ENTER
<b>D</b>	TEST
€I	HIDE
×	MENU
	HDMI1
•	HDMI2
> >>	HDMI2 COMP.
-	COMP. VIDEO
	COMP. VIDEO S-VIDEO
	COMP. VIDEO S-VIDEO BRIGHT <del>-</del>
	COMP. VIDEO S-VIDEO
►► Idea II ■ ►►I AUDIO	COMP. VIDEO S-VIDEO BRIGHT <del>-</del>
	COMP. VIDEO S-VIDEO BRIGHT- BRIGHT+

a. Controls for SACD. b. Controls for MD.

### Chapter 11: The Advanced MCACC menu

### Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **<u>RECEIVER</u>** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

# Making receiver settings from the Advanced MCACC menu

The Advanced MCACC (Multi Channel ACoustic Calibration) system was developed in Pioneer's laboratories with the aim of making it possible for home users to perform adjustments of the same level as in a studio easily and with high precision. The acoustic characteristics of the listening environment are measured and the frequency response is calibrated accordingly to allow high precision, automatic analysis and optimal calibration of the sound field to bring it closer to a studio environment than ever before. Furthermore, while it was previously difficult to eliminate standing waves, this receiver is equipped with a standing wave control function using a unique process to perform acoustic analysis and reduce their influence.

This section describes how to calibrate the sound field automatically and fine-adjust the sound field data manually.

#### 1 Switch on the receiver and your TV.

Make sure that the TV's video input is set to this receiver.

### 2 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

• Press HOME MENU at any time to exit the Home Menu.

3 Select 'Advanced MCACC' from the Home Menu, then press ENTER.

#### 4 Select the setting you want to adjust.

- Full Auto MCACC See Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42 for a quick and effective automatic surround setup.
- Auto MCACC See Automatic MCACC (Expert) below for a more detailed MCACC setup. SC-LX83 only: In addition, the Full Band Phase Control function calibrates the frequency-phase characteristics of the connected speakers.
- Manual MCACC Fine-tunes your speaker settings and customizes the Acoustic Calibration EQ (see *Manual MCACC setup* on page 102).
- **Demo** No settings are saved and no errors occur. When the speakers are connected to this receiver, the test tone is output repeatedly. Press **RETURN** to cancel the test tone.

### Automatic MCACC (Expert)

If your setup requires more detailed settings than those provided in *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42, you can customize your setup options below. You can calibrate your system differently for up to six different MCACC presets, which are useful if you have different listening positions depending on the type of source (for example, watching movies from a sofa, or playing a video game close to the TV).

### Important

- Make sure the microphone/speakers are not moved during the Auto MCACC Setup.
- The screen saver will automatically appear after five minutes of inactivity.

### 

• The test tones used in the Auto MCACC Setup are output at high volume.

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### 1 Select 'Auto MCACC' from the Advanced MCACC menu, then press ENTER.

If the **Advanced MCACC** screen is not displayed, refer to *Making receiver settings from the Advanced MCACC menu* on page 100.

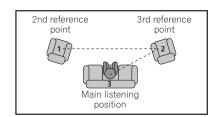
#### 2 Select the parameters you want to set.

Use  $\uparrow/\downarrow$  to select the item, then use  $\leftarrow/\rightarrow$  to set.

- Auto MCACC The default is ALL (recommended), but you can limit the system calibration to only one setting (to save time) if you want.<sup>1</sup>
- EQ Type (only available when the Auto MCACC Menu above is EQ Pro & S-Wave) – This determines how the frequency balance is adjusted.

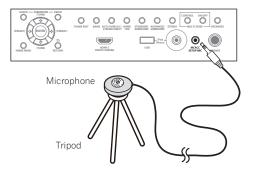
After a single calibration is performed, each of the following three correction curves can be stored separately in the MCACC memory. **SYMMETRY** implements symmetric correction for each pair of left and right speakers to flatten the frequency-amplitude characteristics. **ALL CH ADJ** is a 'flat' setting where all the speakers are set individually so no special weighting is given to any one channel. **FRONT ALIGN**<sup>2</sup> sets all speakers in accordance with the front speaker settings (no equalization is applied to the front left and right channels).

- THX Speaker (only available when the Auto MCACC Menu above is ALL or Speaker Setting) – Select YES if you are using THX speakers (set all speakers to SMALL), otherwise leave it set to NO.
- STAND.WAVE Multi-Point (only available when the Auto MCACC Menu above is EQ Pro & S-Wave) – In addition to measurements at the listening position, you can use two more reference points for which test tones will be analyzed for standing waves. This is useful if you want to get a balanced 'flat' calibration for several seating positions in your listening area. Place the microphone at the reference point indicated on-screen and note that the last microphone placement will be at your main listening position:



### 3 Connect the microphone to the MCACC SETUP MIC jack on the front panel.

Make sure there are no obstacles between the speakers and the microphone.



If you have a tripod, use it to place the microphone so that it's about ear level at your normal listening position. If you do not have a tripod, use some other object to install the microphone.<sup>3</sup>

### 4 When you're finished setting the options, select START then press ENTER.

5 Follow the instructions on-screen.

#### 6 Wait for the Auto MCACC Setup to finish outputting test tones.

A progress report is displayed on-screen while the receiver outputs test tones to determine the speakers present in your setup. Try to be as quiet as possible while it's doing this.<sup>4</sup>

#### 🔗 Note

- When data measurement is taken (after selecting **ALL** or **Keep SP System**), the reverb characteristics data (both before- and aftercalibration) that this receiver had been storing will be overwritten. If you want to save the reverb characteristics data before measuring, connect a USB memory device to this receiver and transfer the data.
- When measurement is taken of data other than SYMMETRY (after selecting ALL or Keep SP System), the data are not measured after the correction. If you will need to measure after correction data, take the measurement using the EQ Professional menu in the Manual MCACC setup (page 102).

• Either effect of Acoustic Calibration EQ Professional and Standing Wave can be switched on and off in the respective MCACC preset. For details, see *Setting the Audio options* on page 72.

2 If you selected ALL or Keep SP System as your Auto MCACC menu, you can specify the MCACC preset where you want to save the SYMMETRY, ALL CH ADJ and FRONT ALIGN settings.

3 It may not be possible to measure correctly if the microphone is placed on a table, sofa, etc.

<sup>•</sup> The EQ Pro & S-Wave measurement is also taken when Keep SP System or EQ Pro & S-Wave is selected. See Acoustic Calibration EQ Professional on page 104 for more on this.

<sup>4</sup> Do not adjust the volume during the test tones. This may result in incorrect speaker settings.

 With error messages (such as Too much ambient noise! or Check microphone) select RETRY after checking for ambient noise (see *Problems when using the Auto MCACC Setup* on page 44) and verifying the mic connection. If there doesn't seem to be a problem, you can simply select GO NEXT and continue.

### 7 If necessary, confirm the speaker configuration in the GUI screen.

The configuration shown on-screen should reflect the actual speakers you have.

If no operations are performed for 10 seconds while the speaker configuration check screen is being displayed, the Auto MCACC Setup will resume automatically. In this case, you don't need to select '**OK**' and press **ENTER** in step 8.

If you see an ERR message (or the speaker configuration displayed isn't correct), there may be a problem with the speaker connection.
 If selecting RETRY doesn't work, turn off the power and check the speaker connections. If there doesn't seem to be a problem, you can simply use ↑/↓ to select the speaker and ←/→ to change the setting and continue.

 If Reverse Phase is displayed, the speaker's wiring (+ and –) may be inverted. Check the speaker connections.<sup>1</sup>

 If the connections were wrong, turn off the power, disconnect the power cord, then reconnect properly.
 After this, perform the Full Auto MCACC procedure again.

– If the connections were right, select  $\ensuremath{\textbf{GONEXT}}$  and continue.

#### 8 Make sure 'OK' is selected, then press ENTER.

A progress report is displayed on-screen while the receiver outputs more test tones to determine the optimum receiver settings.

Again, try to be as quiet as possible while this is happening. It may take 3 to 7 minutes.

• If you selected a **STAND.WAVE Multi-Point** setup (in step 2), you will be asked to place the mic at the 2nd and 3rd reference points before finally placing it at your main listening position.

### 9 The Auto MCACC Setup procedure is completed and the Advanced MCACC menu reappears automatically.

The settings made in the Auto MCACC Setup should give you excellent surround sound from your system, but it is also possible to adjust these settings manually using the **Manual MCACC** setup menu (starting below) or **Manual SP Setup** menu (starting on page 110).<sup>2</sup>

You can also choose to view the settings by selecting individual parameters from the **MCACC Data Check** screen (see *Checking MCACC Data* on page 106).

Press **RETURN** after you have finished checking each screen. When you're finished, select **RETURN** to go back to the **Home Menu**.

Be sure to disconnect the microphone from this receiver upon completion of the Auto MCACC Setup.

#### Manual MCACC setup

You can use the settings in the **Manual MCACC** setup menu to make detailed adjustments when you're more familiar with the system. Before making these settings, you should have already completed *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42.

You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers).

### 

• The test tones used in the **Manual MCACC** setup are output at high volume.

### 😧 Important

- Press the MCACC button while the pertinent setup screens are displayed to select MCACC presets.
- For some of the settings below, you'll have to connect the setup microphone to the front panel and place it about ear level at your normal listening position.
   Press HOME MENU to display the Home Menu before you connect the microphone to this receiver.
- See *Problems when using the Auto MCACC Setup* on page 44 for notes regarding high background noise levels and other possible interference.
- If you're using a subwoofer, switch it on and turn up the volume to the middle position.

#### 🖉 Note

<sup>1</sup> If the speaker is not pointed to the microphone (listening position) or when using speakers that affect the phase (dipole speakers, reflective speakers, etc.), **Reverse Phase** may be displayed even if the speakers are properly connected.

<sup>2 •</sup> Depending on the characteristics of your room, sometimes identical speakers with cone sizes of around 12 cm will end up with different size settings. You can correct the setting manually using the *Manual speaker setup* on page 110.

<sup>•</sup> The subwoofer distance setting may be farther than the actual distance from the listening position. This setting should be accurate (taking delay and room characteristics into account) and generally does not need to be changed.

<sup>•</sup> If Auto MCACC Setup measurement results are incorrect due to the interaction of the speakers and viewing environment, we recommend adjusting the settings manually.

### 1 Select 'Manual MCACC' from the Advanced MCACC menu.

See *Making receiver settings from the Advanced MCACC menu* on page 100 if you're not already at this screen.

#### 2 Select the setting you want to adjust.

If you're doing this for the first time, you might want to make these settings in order.

- Fine Channel Level Make fine adjustments to the overall balance of your speaker system (see *Fine Channel Level* below).
- Fine SP Distance Make precise delay settings for your speaker system (see *Fine Speaker Distance* below).
- **Standing Wave** Control overly resonant low frequencies in your listening room (see *Standing Wave* on page 104).

The last two settings are specifically for customizing the parameters explained in *Acoustic Calibration EQ Adjust* on page 104:

- **EQ Adjust** Manually adjust the frequency balance of your speaker system while listening to test tones (see *Acoustic Calibration EQ Adjust* on page 104).
- **EQ Professional** Calibrate your system based on the direct sound coming from the speakers and make detailed settings according to your room's reverb characteristics (see *Acoustic Calibration EQ Professional* on page 104).
- **Precision Distance** (*SC-LX83 only*) Fine-adjusting the positions of the speakers (see *Precision Distance* (*SC-LX83 only*) on page 106).

#### **Fine Channel Level**

• Default setting: 0.0dB (all channels)

You can achieve better surround sound by properly adjusting the overall balance of your speaker system. You can adjust the Channel Level of each speaker in 0.5 dB increments. The following setting can help you make detailed adjustments that you may not achieve using the *Manual speaker setup* on page 110.

### 1 Select 'Fine Channel Level' from the Manual MCACC setup menu.

The volume increases to the 0.0 dB reference level.

#### 2 Adjust the level of the left channel.

This will be the reference speaker level, so you may want to keep the level around **0.0dB** so that you'll have plenty of room to adjust the other speaker levels.

• After pressing ENTER, test tones will be output.

### 3 Select each channel in turn and adjust the levels (+/ -12.0 dB) as necessary.

Use  $\leftarrow/\Rightarrow$  to adjust the volume of the speaker you selected to match the reference speaker. When it sounds like both tones are the same volume, press  $\clubsuit$  to confirm and continue to the next channel.

- For comparison purposes, the reference speaker will change depending on which speaker you select.
- If you want to go back and adjust a channel, simply use ↑/↓ to select it.

#### 4 When you're finished, press RETURN.

You will return to the **Manual MCACC** setup menu.

#### **Fine Speaker Distance**

• Default setting: 3.00 m (all speakers)

For proper sound depth and separation with your system, it is necessary to add a slight bit of delay to some speakers so that all sounds will arrive at the listening position at the same time. You can adjust the distance of each speaker in 1 cm increments. The following setting can help you make detailed adjustments that you may not achieve using the *Manual speaker setup* on page 110.

### 1 Select 'Fine SP Distance' from the Manual MCACC setup menu.

### 2 Adjust the distance of the left channel from the listening position.

### **3** Select each channel in turn and adjust the distance as necessary.

Use  $\leftarrow / \Rightarrow$  to adjust the delay of the speaker you selected to match the reference speaker.

Listen to the reference speaker and use it to measure the target channel. From the listening position, face the two speakers with your arms outstretched pointing at each speaker. Try to make the two tones sound as if they are arriving simultaneously at a position slightly in front of you and between your arm span.<sup>1</sup>



When it sounds like the delay settings are matched up, press  $\clubsuit$  to confirm and continue to the next channel.

- For comparison purposes, the reference speaker will change depending on which speaker you select.
- If you want to go back and adjust a channel, simply use \$\\$/\$ to select it.

#### 🔗 Note

If you can't seem to achieve this by adjusting the distance setting, you may need to change the angle of your speakers very slightly.
For better audibility, the subwoofer emits a continuous test tone (oscillating pulses are heard from your other speakers). Note that it may be difficult to compare this tone with the other speakers in your setup (depending on the low frequency response of the reference speaker).

#### 4 When you're finished, press RETURN.

You will return to the **Manual MCACC** setup menu.

#### **Standing Wave**

Default setting: ON<sup>1</sup>/ATT 0.0dB (all filters)

Acoustic standing waves occur when, under certain conditions, sound waves from your speaker system resonate mutually with sound waves reflected off the walls in your listening area. This can have a negative effect on the overall sound, especially at certain lower frequencies. Depending on speaker placement, your listening position, and ultimately the shape of your room, it results in an overly resonant ('boomy') sound. The Standing Wave Control uses filters to reduce the effect of overly resonant sounds in your listening area. During playback of a source, you can customize the filters used for Standing Wave Control for each of your MCACC presets.<sup>2</sup>

### 1 Select 'Standing Wave' from the Manual MCACC setup menu.

### 2 Adjust the parameters for the Standing Wave Control.

- Filter Channel Select the channel to which you will apply the filter(s): MAIN (all except center channel and subwoofer), Center or SW (subwoofer).
- TRIM (only available when the filter channel above is SW) – Adjust the subwoofer channel level (to compensate for the difference in output post-filter).
- Freq / Q / ATT These are the filter parameters where Freq represents the frequency you will be targeting and Q is the bandwidth (the higher the Q, the narrower the bandwidth, or range) of the attenuation (ATT, the amount of reduction to the targeted frequency).

#### 3 When you're finished, press RETURN.

You will return to the Manual MCACC setup menu.

#### **Acoustic Calibration EQ Adjust**

• Default setting: ON/0.0dB (all channels/bands)

Acoustic Calibration Equalization is a kind of room equalizer for your speakers (excluding the subwoofer). It works by measuring the acoustic characteristics of your room and neutralizing the ambient characteristics that can color the original source material (providing a 'flat' equalization setting). If you're not satisfied with the adjustment provided in *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42 or *Automatic MCACC (Expert)* on page 100, you can also adjust these settings manually to get a frequency balance that suits your tastes.

### 1 Select 'EQ Adjust' from the Manual MCACC setup menu.

### 2 Select the channel(s) you want and adjust to your liking.

Use  $\uparrow/\downarrow$  to select the channel.

Use  $\leftarrow/\rightarrow$  to select the frequency and  $\uparrow/\downarrow$  to boost or cut the EQ. When you're finished, go back to the top of the screen and press  $\leftarrow$  to return to **Ch**, then use  $\uparrow/\downarrow$  to select the channel.

 The OVER! indicator shows in the display if the frequency adjustment is too drastic and might distort. If this happens, bring the level down until OVER! disappears from the display.

### 🚺 Тір

Changing the frequency curve of one channel too drastically will affect the overall balance. If the speaker balance seems uneven, you can raise or lower channel levels using test tones with the TRIM feature. Use ↑/↓ to select TRIM, then use ←/→ to raise or lower the channel level for the current speaker.

#### 3 When you're finished, press RETURN.

You will return to the Manual MCACC setup menu.

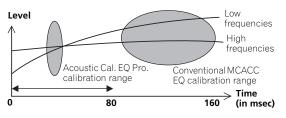
#### Acoustic Calibration EQ Professional

This setup minimizes the unwanted effects of room reverberation by allowing you to calibrate your system based on the direct sound coming from the speakers.

#### How to use Acoustic Calibration EQ Professional

If you find that lower frequencies seem overly reverberant in your listening room (i.e. it sounds 'boomy'), or that different channels seem to exhibit different reverb characteristics (when Type A or Type B shown on the diagrams on the following applies), select **EQ Pro. & S-Wave** (or **ALL**) for the **Auto MCACC** setting in *Automatic MCACC (Expert)* on page 100 to calibrate the room automatically.

#### • Type A: Reverberance of high vs. low frequencies

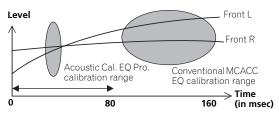


#### 🔗 Note

2 Standing Wave control filter settings cannot be changed during playback of sources using the HDMI connection.

<sup>1</sup> You can switch on or off the Standing Wave and Acoustic Calibration EQ feature in the **AUDIO PARAMETER** menu. See Setting the Audio options on page 72 for more on this.

• Type B: Reverb characteristics for different channels



If the pattern is as shown above, select the **30-50ms** setting. If not, this setting is not necessary.

#### **Using Acoustic Calibration EQ Professional**

- 1 Select 'EQ Professional', then press ENTER.
- 2 Select an option and press ENTER.
- Reverb Measurement Use this to measure the reverb characteristics before and after calibration.
- **Reverb View** You can check the reverb measurements made for specified frequency ranges in each channel.<sup>1</sup>
- Advanced EQ Setup Use this to select the time period that will be used for frequency adjustment and calibration, based on the reverb measurement of your listening area. Note that customizing system calibration using this setup will alter the settings you made in Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42 or Automatic MCACC (Expert) on page 100 and is not necessary if you're satisfied with these settings.

### 3 If you selected 'Reverb Measurement', select EQ ON or OFF, and then START.

The following options determine how the reverb characteristics of your listening area are displayed in **Reverb View**:

• EQ OFF – You will see the reverb characteristics of your listening area *without* the equalization performed by this receiver (before calibration).

• **EQ ON** – You will see the reverb characteristics of your listening area *with* the equalization performed by this receiver (after calibration).<sup>2</sup> Note that the EQ response may not appear entirely flat due to adjustments necessary for your listening area.<sup>3</sup>

When the reverb measurement is finished, you can select **Reverb View** to see the results on-screen. See *Professional Calibration EQ graphical output* on page 123 for troubleshooting information.

# 4 If you selected 'Reverb View', you can check the reverb characteristics for each channel. Press RETURN when you're done.

The reverb characteristics are displayed when the **Full Auto MCACC** or **Reverb Measurement** measurements are conducted.<sup>4</sup>

Use  $\leftarrow/\Rightarrow$  to select the channel, frequency and calibration setting you want to check. Use  $\uparrow/\downarrow$  to go back and forth between the three. The reverb characteristics graph before and after EQ calibration can be displayed by selecting **Calibration : Before / After**. Note that the markers on the vertical axis indicate decibels in 2 dB steps.

# 5 If 'Advanced EQ Setup' is selected, select the MCACC memory to be stored, then enter the desired time setting for calibration, and then select START.<sup>5</sup>

Based on the reverb measurement above, you can choose the time period that will be used for the final frequency adjustment and calibration. Even though you can make this setting without reverb measurement, it is best to use the measurement results as a reference for your time setting. For an optimal system calibration based on the direct sound coming from the speakers, we recommend using the **30-50ms** setting.

Use  $\leftarrow / \rightarrow$  to select the setting. Use  $\uparrow / \downarrow$  to switch between them.

Select the setting from the following time periods (in milliseconds): 0-20ms, 10-30ms, 20-40ms, 30-50ms, 40-60ms, 50-70ms and 60-80ms. This setting will be applied to all channels during calibration.

When you're finished, select **START**. It will take about 2 to 4 minutes for the calibration to finish.

#### 🔗 Note

- 1 If the **Reverb View** procedure is performed after the *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42 or **Reverb Measurement** operation, depending on the standing wave control setting, differences may appear on the reverb graph. With the Auto MCACC function, the reverberations are measured with the standing waves controlled, so the reverb characteristics graph shows the characteristics with the effect of the standing waves eliminated. By contrast, the **Reverb Measurement** function measures the reverberations without controlling the standing waves, so the graph indicates the reverb characteristics including the effect of the standing waves. If you wish to check the reverb characteristics of the room itself (with the standing waves as such), we recommend using the **Reverb Measurement** function.
- 2 The calibration corresponding to the currently selected MCACC preset will be used when **EQ ON** is selected. To use another MCACC preset, press **MCACC** to select the MCACC memory you want to store.

• The predicted reverb characteristics after calibration can be acquired with the **Full Auto MCACC** function (*Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42), but here the actually measured reverb characteristics after calibration can be acquired. 3 After auto calibration with **EQ Type : SYMMETRY (Full Auto MCACC**, etc.), the graph for the inferred reverb characteristics can be displayed

by selecting **Reverb View**. To display the actually measured reverb characteristics after EQ calibration, measure with **EQ ON**. 4 The **After** display when measurements have been made using the **Full Auto MCACC** or **Auto MCACC** (**ALL** or **KEEP SP system**) function shows the graph for the inferred reverb characteristics after **EQ Type : SYMMETRY** calibration.

5 To specify the place where the MCACC memory is to be stored, press MCACC to select the MCACC memory you want to store.

After the Acoustic Calibration Equalization is set, you are given the option to check the settings on-screen.

#### **Precision Distance** (SC-LX83 only)

Before using this function, perform the Full Auto MCACC Setup procedure (see page 42). Performing the Full Auto MCACC procedure corrects the distance to a precision of 1 cm, but the Precision Distance function lets you adjust the distance to the speakers (their position) with a precision of under 1 cm. Here, rather than correct the numerical value of the distance, actually move the physical positions of the speakers to fine-adjust (the subwoofer cannot be adjusted). The input from the microphone is indicated on the screen. Fine-adjust the positions of the speakers so that the gauge reading is maximum. The detailed distance adjustments that were previously performed by skilled installers by ear can easily be performed watching the gauge on the monitor. Place the microphone in the same position as when the microphone was connected and the Full Auto MCACC operation was performed.

### 1 Select 'Precision Distance' from the Manual MCACC setup menu.

### 2 Fine-adjust the positions of the speakers in sequence, starting from the front right channel.<sup>1</sup>

Test pulses are output from the speaker for the selected channel and from one other speaker. Move the position of the selected speaker 1 cm towards or away from the microphone. Watch the screen when doing so, and fineadjust the positions of the speakers so that the gauge reading is maximum. Also, the channel serving as the standard differs according to the channel being adjusted. Do not move the speaker serving as the standard channel.

The maximum gauge reading is 10.0. (If the reading stays under 10.0, adjust the speaker for the maximum value.)

#### 3 When you're finished, press RETURN.

You will return to the Manual MCACC setup menu.

#### Checking MCACC Data

At the procedure of *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42, the procedure of *Automatic MCACC (Expert)* on page 100 or after fine-adjusting at *Manual MCACC setup* on page 102, you can check your calibrated settings using the GUI screen. The data can be transferred to a computer using a USB device to check it on the computer's screen as well.

### 1 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

2 Select 'MCACC Data Check' from the Home Menu.

#### 3 Select the setting you want to check.

- **Speaker Setting** Used to check the settings of the speaker systems. See *Speaker Setting* on page 107 for more on this.
- **Channel Level** Used to check the output level of the different speakers. See *Channel Level* on page 107 for more on this.
- **Speaker Distance** Used to check the distance to the different speakers. See *Speaker Distance* on page 107 for more on this.
- **Standing Wave** Used to check the standing wave control filter settings. See *Standing Wave* on page 107 for more on this.
- Acoustic Cal EQ Used to check the calibration values of the listening environment's frequency response. See *Acoustic Cal EQ* on page 107 for more on this.
- **Group Delay** (*SC-LX83 only*) Used to check the speakers' group delay (both before and after calibration). See *Group Delay* (*SC-LX83 only*) on page 107 for more on this.
- Output MCACC data See *Output MCACC data* on page 108 for more on this.

#### 🖉 Note

• Like with the Auto MCACC Setup, perform this adjustment in as quiet an environment as possible. 0.0 will be displayed if abrupt noise is input during the adjustment.

• The distance for all the channels can only be made uniform even if the R (front right) channel is adjusted in the proper order.

· Be very careful not to tip the speakers over when moving them.

<sup>1 •</sup> If the microphone is placed in a different position from when the Full Auto MCACC or Auto MCACC procedure was performed, it may not be possible to adjust properly. In this case, we recommend performing the procedure at *Fine Speaker Distance* on page 103 in the Auto MCACC custom measurements, then performing the adjustment described here without moving the microphone.

<sup>•</sup> The adjustment here is for adjusting for an error of 1 cm or less (not adjustable with the Auto MCACC Setup). 0.0 may be displayed after distance correction with the Auto MCACC Setup, but even in this case this adjustment allows you to optimize the correction. Note that if the Auto MCACC Setup is performed after completing the fine-adjustment here, the correction precision will drop to about 1 cm.

<sup>•</sup> The result of the adjustment performed here can be checked by listening to the test pulses output at the *Precision Distance (SC-LX83 only)* (the test pulses will be more centrally positioned between the speakers than before the adjustment was performed). Be careful not to change the distance values at this time.

#### 4 Press RETURN to go back to the MCACC Data Check menu, repeating steps 2 and 3 to check other settings.

### 5 When you're finished, press RETURN.

You will return to the Home Menu.

#### Speaker Setting

Use this to display the speaker size and number of speakers. See *Speaker Setting* on page 111 for more on this.

### 1 Select 'Speaker Setting' from the MCACC Data Check menu.

#### 2 Select the channel you want to check.

Use  $\uparrow/\downarrow$  to select the channel. The corresponding channel on the layout diagram is highlighted.

#### **Channel Level**

Use this to display the level of the various channels. See *Channel Level* on page 112 for more on this.

### 1 Select 'Channel Level' from the MCACC Data Check menu.

### 2 When 'MCACC' is highlighted, use $\Leftarrow/\Rightarrow$ to select the MCACC preset you want to check.

The level of the various channels set at the selected MCACC preset is displayed. '---' is displayed for channels that are not connected.

#### **Speaker Distance**

Use this to display the distance from the different channels to the listening position. See *Speaker Distance* on page 112 for more on this.

### 1 Select 'Speaker Distance' from the MCACC Data Check menu.

### 2 When 'MCACC' is highlighted, use $\Leftarrow/\Rightarrow$ to select the MCACC preset you want to check.

The distance from the various channels set at the selected MCACC preset is displayed. '---' is displayed for channels that are not connected.

#### **Standing Wave**

Use this to display the standing wave related adjustment values for the various MCACC memories. See *Standing Wave* on page 104 for more on this.

### 1 Select 'Standing Wave' from the MCACC Data Check menu.

# 2 When 'Filter Channel' is highlighted, use ↑/↓ to select the channel for which you want to check standing wave control.

The standing wave related calibration value for the selected channel stored at the selected MCACC preset and its graph are displayed.

### 3 Press $\leftarrow$ to highlight 'MCACC', then use $\uparrow/\downarrow$ to select the MCACC preset you want to check.

#### Acoustic Cal EQ

Use this to display the calibration values for the frequency response of the various channels set in the different MCACC presets. See *Acoustic Calibration EQ Adjust* on page 104 for more on this.

### 1 Select 'Acoustic Cal EQ' from the MCACC Data Check menu.

### 2 When 'Ch' is highlighted, use $\uparrow/\downarrow$ to select the channel.

The calibration value for the frequency response of the selected channel stored at the selected MCACC preset and its graph are displayed.

### 3 Press $\leftarrow$ to highlight 'MCACC', then use $\uparrow/\downarrow$ to select the MCACC preset you want to check.

#### Group Delay (SC-LX83 only)

Use this to display the calibrated speaker group delay results. See *Better sound using Phase Control and Full Band Phase Control (SC-LX83 only)* on page 60 for more on this.

### 1 Select 'Group Delay' from the MCACC Data Check menu.

### 2 When 'Channel' is highlighted, use $\leftarrow / \rightarrow$ to select the channel you want to check.

The result of group delay calibration for the selected channel is displayed.

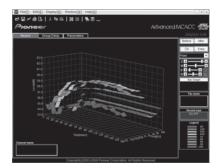
When measurements have been performed with **Full Auto MCACC** selected at **Advanced MCACC** or with **ALL** or **Full Band Phase Ctrl** selected when **Auto MCACC** is selected, the graph before group delay calibration is also displayed.

When **After** is selected at **Calibration**, the group delay after calibration is displayed. Compared to when **Before** is selected, with **After** there is less difference in the delay between frequency bands and the group delay between the different channels is uniform, allowing you to check the full band phase control effect.

**No Data** is displayed if the selected group delay has not been measured.

#### **Output MCACC data**

Before continuing, make sure you have completed step 2 in *Checking MCACC Data* on page 106. The data measured with the Advanced MCACC function is transmitted to the USB device.<sup>1</sup> The 3D graphs of the reverb characteristics and group delay characteristics<sup>2</sup> before and after calibration and the MCACC results (parameters) can be checked on your computer.



### 1 Select 'Output MCACC data' from the MCACC Data Check menu.

When the receiver is ready for transmission, **"Please** connect your USB memory for the MCACC data, then press OK to output them." shows on the GUI screen.

### 2 Connect your USB device to the USB terminal on the front panel, then select "OK".

"Please wait..." will be displayed on the screen and transmission of measurement data to the USB device will begin.

Transmission is complete when "Complete" is displayed.  $\!\!\!^3$ 

#### **Data Management**

This system allows you to store up to six MCACC presets, allowing you to calibrate your system for different listening positions (or frequency adjustments for the same listening position).<sup>4</sup> This is useful for alternate settings to match the kind of source you're listening to and where you're sitting (for example, watching movies from a sofa, or playing a video game close to the TV).

From this menu you can copy from one preset to another, name presets for easier identification and clear any ones you don't need.

### 1 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

- 2 Select 'Data Management' from the Home Menu.
- 3 Select the setting you want to adjust.
- Memory Rename Name your MCACC presets for easy identification (see *Renaming MCACC presets* below).
- MCACC Memory Copy Copy settings from one MCACC preset to another (see *Copying MCACC preset data* on page 109).
- MCACC Memory Clear Clear any MCACC presets that you don't want (see *Clearing MCACC presets* on page 109).

#### **Renaming MCACC presets**

If you have several different MCACC presets that you're using, you may want to rename them for easier identification.

#### 1 Select 'Memory Rename' from the Data Management setup menu.

### 2 Select the MCACC preset you want to rename, then select an appropriate preset name.

Use  $\uparrow/\downarrow$  to select the preset, then  $\leftarrow/\rightarrow$  to select a preset name.

#### 3 Repeat for as many MCACC presets as necessary, then press RETURN when you're finished.

You will return to the **Data Management** setup menu.

#### 🔗 Note

1 MCACC data and parameters are transferred from this receiver to a USB device and by connecting the USB device to a computer, the data is imported via the MCACC software in the computer. See *Connecting a USB device for Advanced MCACC output* on page 39 for more on this.

2 Only for the SC-LX83, since this function is supported by the display of the group delay characteristics' 3D graphs.

<sup>3</sup> Only one set of reverb characteristics is stored on the receiver. If you wish to compare several different measurement results, transmit the data to the USB memory each time reverb measurements are taken.

<sup>4</sup> This can be done in Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42 or Automatic MCACC (Expert) on page 100, either of which you should have already completed.

### **Copying MCACC preset data**

If you want to manually adjust the Acoustic Calibration EQ (see *Manual MCACC setup* on page 102), we recommend copying your current settings<sup>1</sup> to an unused MCACC preset. Instead of just a flat EQ curve, this will give you a reference point from which to start.

## 1 Select 'MCACC Memory Copy' from the Data Management setup menu.

#### 2 Select the setting you want to copy.

- All Data Copies all the settings of the selected MCACC preset memory.
- Level & Distance Copies only the channel level and speaker distance settings of the selected MCACC preset memory.

# 3 Select the MCACC preset you'll be copying the settings 'From', then specify where you want to copy them ('To').

Make sure you don't overwrite an MCACC preset you're currently using (this can't be undone).

#### 4 Select 'OK' to confirm and copy the settings.

When **MCACC Memory Copy?** is displayed, select **YES**. If **NO** is selected, the memory is not copied.

**Completed!** shows in the GUI screen to confirm the MCACC preset has been copied, then you automatically return to the **Data Management** setup menu.

### **Clearing MCACC presets**

If you are no longer using one of the MCACC presets stored in memory, you can choose to clear the calibration settings of that preset.

### 1 Select 'MCACC Memory Clear' from the Data Management setup menu.

#### 2 Select the MCACC preset you want to clear.

Make sure you don't clear an MCACC preset you're currently using (this can't be undone).

#### 3 Select 'OK' to confirm and clear the preset.

When **MCACC Memory Clear?** is displayed, select **YES**. If **NO** is selected, the memory is not cleared.

**Completed!** shows in the GUI screen to confirm the MCACC preset has been cleared, then you automatically return to the **Data Management** setup menu.

### 🖉 Note

<sup>1</sup> The settings made in Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42 or Automatic MCACC (Expert) on page 100.

## Chapter 12: The System Setup and Other Setup menus

## Important

 The procedure for setting the receiver operation mode differs for the remote controls included with the SC-LX83 and SC-LX73. For the SC-LX83's remote control, set the remote control operation selector switch to RECEIVER. For the SC-LX73's remote

control, press the **RECEIVER** button. When "set the remote control to the receiver operation mode" is indicated in these instructions, use the respective procedure described above.

# Making receiver settings from the System Setup menu

The following section describes how to change the speaker-related settings manually and make various other settings (input selection, OSD language selection, etc.).

### 1 Switch on the receiver and your TV.

Make sure that the TV's video input is set to this receiver.

## 2 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

• Press HOME MENU at any time to exit the Home Menu.

## 3 Select 'System Setup' from the Home Menu, then press ENTER.

### 4 Select the setting you want to adjust.

- Manual SP Setup Sets the type of connection used for surround back terminals and the size, number distance and overall balance of the connected speakers (see *Manual speaker setup* below).
- **Input Setup** Specifies what you've connected to the digital, HDMI and component video inputs (see *The Input Setup menu* on page 44).
- **OSD Language** The GUI screen's display language can be changed (see *Changing the OSD display language (OSD Language)* on page 42).
- Network Setup Conducts the setup necessary to connect this unit to the network (see *Network Setup menu* on page 113).

• Other Setup – Makes customized settings to reflect how you are using the receiver (see *The Other Setup menu* on page 115).

### Manual speaker setup

This receiver allows you to make detailed settings to optimize the surround sound performance. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers).

These settings are designed to customize your system, but if you're satisfied with the settings made in *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42, it isn't necessary to make all of these settings.

## 

• The test tones used in the **Manual SP Setup** are output at high volume.

### Select 'Manual SP Setup', then press ENTER.

See *Making receiver settings from the System Setup menu* above if you're not already at this screen.

### 2 Select the setting you want to adjust.

If you are doing this for the first time, you may want to adjust these settings in order:

- Speaker System Specifies how you are using your surround back speakers (page 111).
- **Speaker Setting** Specifies the size and number of speakers you've connected (page 111).
- **Channel Level** Adjusts the overall balance of your speaker system (page 112).
- **Speaker Distance** Specifies the distance of your speakers from the listening position (page 112).
- **X-Curve** Adjusts the tonal balance of your speaker system for movie soundtracks (page 113).
- **THX Audio Setting** Specifies whether you are using a THX speaker setup (page 113).

3 Make the adjustments necessary for each setting, pressing RETURN to confirm after each screen.

### Speaker system setting

### • Default setting: Normal(SB/FH)

There are several ways you can use the speaker terminals with this receiver. In addition to a normal home theater setup where they are used for the front height speakers or front wide speakers, they can be used for bi-amping the front speakers or as an independent speaker system in another room.

## 1 Select 'Speaker System' from the Manual SP Setup menu.

See *Making receiver settings from the System Setup menu* on page 110 if you're not already at this screen.

### 2 Select the speaker system setting.

- Normal(SB/FH) Select for normal home theater use with front height speakers in your main (speaker system A) setup.
- Normal(SB/FW) Select for normal home theater use with front wide speakers in your main (speaker system A) setup.
- **Speaker B** Select to use the B speaker terminals to listen to stereo playback in another room (see *Switching the speaker terminals* on page 75).
- Front Bi-Amp Select this setting if you're biamping your front speakers (see *Bi-amping your speakers* on page 25).
- **ZONE 2** Select to use the (surround back) B speaker terminals for an independent system in another zone (see *Using the MULTI-ZONE controls* on page 75).

### 3 If you selected Normal(SB/FH), Normal(SB/FW), or Speaker B in Step 2, select the placement of the surround speakers.

In a 7.1-channel surround system with surround speakers placed directly at the sides of the listening position, the surround sound of 5.1-channel sources is heard from the side. This function mixes the sound of the surround speakers with the surround back speakers so that the surround sound is heard from diagonally to the rear as it should be.<sup>1</sup>

- **ON SIDE** Select when the surround speakers is positioned right beside you.
- **IN REAR** Select when the surround speaker is positioned obliquely behind you.

4 When 'Setting Change?' is displayed, select Yes.

If **No** is selected, the setting is not changed.

You will return to the Manual SP Setup menu.

### **Speaker Setting**

Use this setting to specify your speaker configuration (size, number of speakers and crossover frequency)<sup>2</sup>. It is a good idea to make sure that the settings made in *Automatically conducting optimum sound tuning (Full Auto MCACC)* on page 42 are correct. Note that this setting applies to all MCACC presets, and cannot be set independently.

### 1 Select 'Speaker Setting' from the Manual SP Setup menu.

## 2 Choose the set of speakers that you want to set, then select a speaker size.

Use  $\leftarrow / \Rightarrow$  to select the size (and number) of each of the following speakers:<sup>3</sup>

- Front Select LARGE if your front speakers reproduce bass frequencies effectively, or if you didn't connect a subwoofer. Select SMALL to send the bass frequencies to the subwoofer.
- Center Select LARGE if your center speaker reproduces bass frequencies effectively, or select SMALL to send bass frequencies to the other speakers or subwoofer. If you didn't connect a center speaker, choose NO (the center channel is sent to the front speakers).
- FH Select LARGE if your front height speakers reproduce bass frequencies effectively, or select SMALL to send bass frequencies to the other speakers or subwoofer. If you didn't connect front height speakers, choose NO (the front height channel is sent to the front speakers).<sup>4</sup>
- FW Select LARGE if your front wide speakers reproduce bass frequencies effectively, or select SMALL to send bass frequencies to the other speakers or subwoofer. If you didn't connect front wide speakers, choose NO (the front wide channel is sent to the front speakers).<sup>5</sup>

#### 🖉 Note

- 1 Depending on the positions of the speakers and the sound source, in some cases it may not be possible to achieve good results. In this case, set the setting to **ON SIDE** or **IN REAR**.
- 2 If you're using a THX speaker setup, set all speakers to SMALL.
- 3 If you select **SMALL** for the front speakers the subwoofer will automatically be fixed to **YES**. Also, the center, surround, surround back, front height and front wide speakers can't be set to **LARGE** if the front speakers are set to **SMALL**. In this case, all bass frequencies are sent to the subwoofer.
- 4 You can adjust this setting only when Speaker System setting is Normal(SB/FH).
- If the surround speakers are set to NO, this setting will automatically be set to NO.
- 5 You can adjust this setting only when **Speaker System** setting is **Normal(SB/FW)**.
  - If the surround speakers are set to NO, this setting will automatically be set to NO.

- Surr Select LARGE if your surround speakers reproduce bass frequencies effectively. Select SMALL to send bass frequencies to the other speakers or subwoofer. If you didn't connect surround speakers choose NO (the sound of the surround channels is sent to the front speakers or a subwoofer).
- SB Select the number of surround back speakers you have (one, two or none).<sup>1</sup> Select LARGEx2 or LARGEx1 if your surround back speakers reproduce bass frequencies effectively. Select SMALLx2 or SMALLx1 to send bass frequencies to the other speakers or subwoofer. If you didn't connect surround back speakers choose NO.
- SW LFE signals and bass frequencies of channels set to SMALL are output from the subwoofer when YES is selected. Choose the PLUS setting if you want the subwoofer to output bass sound continuously or you want deeper bass (the bass frequencies that would normally come out the front and center speakers are also routed to the subwoofer).<sup>2</sup> If you did not connect a subwoofer choose NO (the bass frequencies are output from other speakers).

**3** Select 'X. OVER' and set the crossover frequency.<sup>3</sup> Frequencies below this point will be sent to the subwoofer (or LARGE speakers).

4 When you're finished, press RETURN.

You will return to the Manual SP Setup menu.

### **Channel Level**

Using the channel level settings, you can adjust the overall balance of your speaker system, an important factor when setting up a home theater system.

## 1 Select 'Channel Level' from the Manual SP Setup menu.

- 2 Select a setup option.
  - MANUAL Move the test tone manually from speaker to speaker and adjust individual channel levels.

• **AUTO** – Adjust channel levels as the test tone moves from speaker to speaker automatically.

#### 3 Confirm your selected setup option.

The test tones will start after you press ENTER.

#### 4 Adjust the level of each channel using ←/→.

If you selected **MANUAL**, use **↑/**↓ to switch speakers. The **AUTO** setup will output test tones in the order shown on-screen:

Adjust the level of each speaker as the test tone is  $emitted.^4$ 

### 5 When you're finished, press RETURN.

You will return to the Manual SP Setup menu.

## 🚺 Тір

 You can change the channel levels by set the remote control to the receiver operation mode, then press CH LEVEL, and then using ←/→ on the remote control.

### Speaker Distance

For good sound depth and separation from your system, you need to specify the distance of your speakers from the listening position. The receiver can then add the proper delay needed for effective surround sound.

## 1 Select 'Speaker Distance' from the Manual SP Setup menu.

### 2 Adjust the distance of each speaker using $\leftarrow / \Rightarrow$ .

You can adjust the distance of each speaker in 0.01 m Increments.

### 3 When you're finished, press RETURN.

You will return to the Manual SP Setup menu.

## 🔅 Тір

• For best surround sound, make sure the surround back speakers are the same distance from the listening position.

### 🖉 Note

1 • If you selected ZONE 2 or Front Bi-Amp (in Speaker system setting on page 111) you can't adjust the surround back settings.
• If the surround speakers are set to NO, the surround back speakers will automatically be set to NO.

2 If you have a subwoofer and like lots of bass, it may seem logical to select LARGE for your front speakers and PLUS for the subwoofer. This may not, however, yield the best bass results. Depending on the speaker placement of your room you may actually experience a decrease in the amount of bass due low frequency cancellations. In this case, try changing the position or direction of speakers. If you can't get good results, listen to the bass response with it set to PLUS and YES or the front speakers set to LARGE and SMALL alternatively and let your ears judge which sounds best. If you're having problems, the easiest option is to route all the bass sounds to the subwoofer by selecting SMALL for the front speakers.

3 • This setting decides the cutoff between bass sounds playing back from the speakers selected as LARGE, or the subwoofer, and bass sounds playing back from those selected as SMALL. It also decides where the cutoff will be for bass sounds in the LFE channel.

• With Full Auto MCACC Setup or Auto MCACC Setup (ALL or Speaker Setting), the setting here will not apply and the crossover frequency will be automatically set. Crossover frequency is a frequency aimed at achieving the optimal sound field taking into account the bass capacity of all connected speakers and human aural characteristics.

• If you're using THX speakers, confirm that the crossover frequency is set to 80Hz.

<sup>4</sup> If you are using a Sound Pressure Level (SPL) meter, take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighting/slow reading).

### X-Curve

Most soundtracks mixed for cinema sound too bright when played back in large rooms. The X-Curve setting acts as a kind of re-equalization for home theater listening, and restores proper tonal balance of movie soundtracks.<sup>1</sup>

### 1 Select 'X-Curve' from the Manual SP Setup menu.

### 2 Choose the X-Curve setting you want.

Use  $\leftarrow/\rightarrow$  to adjust the setting. The X-Curve is expressed as a downwards slope in decibels per octave, starting at 2 kHz. The sound becomes less bright as the slope increases (to a maximum of **-3.0dB/oct**). Use the following guidelines to set the X-Curve according to your room size:

Room size (m <sup>2</sup> )	≤36	≤48	≤60	≤72	≤300	≤1000
X-Curve (dB/oct)	-0.5	-1.0	-1.5	-2.0	-2.5	-3.0

• If you select **OFF**, the frequency curve will be flat and the X-Curve has no effect.

### 3 When you're finished, press RETURN.

### **THX Audio Setting**

This menu allows the user to adjust various THX features including Loudness Plus, SBch processing, SB Speaker Position, THX Ultra2/Select2<sup>2</sup> Subwoofer (on/off), and Boundary Gain Control. Please see page 130 for details regarding these THX features.

## 1 Select 'THX Audio Setting' from the Manual SP setup menu.

### 2 Select either ON or OFF for the THX Loudness Plus setting.

## 3 Specify whether the SBch processing is AUTO or MANUAL.

- AUTO When surround back speakers are connected, whether or not surround back channel signals are present in the audio signals being input is detected and the appropriate THX surround mode is set.
- MANUAL The desired THX surround mode can be selected regardless of whether or not surround back channel signals are present in the audio signals being input.

## 4 Specify the distance of your surround back speakers from each other.

- **0–0.3 m** Surround back speakers within 30 cm apart (best for THX surround sound).
- >0.3- 1.2 m Surround back speakers between 30 cm and 1.2 m apart.
- 1.2 m< Surround back speakers more than 1.2 m apart (default).

## 5 Specify whether your subwoofer is Ultra2/Select2<sup>2</sup> certified or not.

If your subwoofer isn't THX Ultra2/Select2<sup>2</sup> certified, but you still want to switch boundary gain compensation on, select **YES** here, but the effect might not work properly.

## 6 Select either ON or OFF for Boundary Gain Compensation setting.

### 7 When you're finished, press RETURN.

You will return to the Manual SP Setup menu.

### Network Setup menu

Setting up the network to listen to Internet radio on this receiver.

## 1 Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

### 2 Select 'System Setup' from the Home Menu.

## **3** Select 'Network Setup' from the System Setup menu.

### 4 Select the setting you want to adjust.

If you are doing this for the first time, you may want to adjust these settings in order:

- IP Address, Proxy Sets up the IP address/Proxy of this receiver (page 114).
- **Information** Checks the MAC address and the firmware version of the Network section of this receiver (page 114).
- Network Standby Allows the Web Control function to be used even when the receiver is in the standby mode (page 114).

### 🔗 Note

<sup>1</sup> Since the principal is the same, X-Curve isn't applied when you're using any of the Home THX, Pure direct or Optimum surround modes.

<sup>2</sup> Ultra2 for the SC-LX83, Select2 for the SC-LX73.

### IP address/Proxy setting

In case the router connected to the LAN terminal on this receiver is a broadband router (with a built-in DHCP server function), simply turn on the DHCP server function, and you will not need to set up the network manually. You must set up the network as described below only when you have connected this receiver to a broadband router without a DHCP server function. Before you set up the network, consult with your ISP or the network manager for the required settings. It is advised that you also refer to the operation manual supplied with your network component.<sup>1</sup>

#### **IP Address**

The IP address to be entered must be defined within the following ranges. If the IP address defined is beyond the following ranges, you cannot play back audio files stored on components on the network or listen to Internet radio stations.

Class A: 10.0.0.1 to 10.255.255.254 Class B: 172.16.0.1 to 172.31.255.254 Class C: 192.168.0.1 to 192.168.255.254

#### Subnet Mask

In case an xDSL modem or a terminal adapter is directly connected to this receiver, enter the subnet mask provided by your ISP on paper. In most cases, enter 255.255.255.0.

### **Default Gateway**

In case a gateway (router) is connected to this receiver, enter the corresponding IP address.

#### Primary DNS Server/Secondary DNS Server

In case there is only one DNS server address provided by your ISP on paper, enter it in the **'Primary DNS Server'** field. In case there are more than two DNS server addresses, enter **'Secondary DNS Server'** in the other DNS server address field.

### **Proxy Hostname/Proxy Port**

This setting is required when you connect this receiver to the Internet via a proxy server. Enter the IP address of your proxy server in the **'Proxy Hostname'** field. Also, enter the port number of your proxy server in the **'Proxy Port'** field.



 Press 1/↓ or the numeric buttons to enter alphanumeric characters. To delete alphanumeric characters entered one at a time, press CLEAR.

## 1 Select 'IP Address, Proxy' from the Network Setup menu.

### 2 Select the DHCP setting you want.

When you select **ON**, the network is automatically set up, and you do not need to follow Steps 3. Proceed with Step 4.

If there is no DHCP server on the network and you select **ON**, this receiver will use its own Auto IP function to determine the IP address.<sup>2</sup>

### 3 Enter the IP Address, Subnet Mask, Default Gateway, Primary DNS Server and Secondary DNS Server.

Press  $\uparrow/\downarrow$  to select a number and  $\leftarrow/\rightarrow$  to move the cursor.

## 4 Select 'OFF' or 'ON' for the Enable Proxy Server setting to deactivate or activate the proxy server.

In case you select **'OFF'**, proceed with Step 7. In case you select **'ON'**, on the other hand, proceed with Step 5.

## 5 Enter the address of your proxy server or the domain name.

6 Enter the port number of your proxy server. Use the numeric buttons to enter the port number.

7 Select 'OK' to confirm the IP Address/Proxy setup.

### Checking the MAC address

You can check the MAC address.

### 1 Select 'Information' from the Network Setup menu.

### **Network Standby**

This setting allows the **Web Control** function (page 77) for operating the receiver from a computer connected on the same LAN as the receiver to be used even when the receiver is in the standby mode.

## 1 Select 'Network Standby' from the Network Setup menu.

### 2 Specify whether the Network Standby is ON or OFF.

- **ON** The Web Control function can be used even when the receiver is in the standby mode.
- **OFF** The Web Control function cannot be used when the receiver is in the standby mode (This lets you reduce power consumption in the standby mode).

### 🔗 Note

<sup>1</sup> In case you make changes to the network configuration without the DHCP server function, make the corresponding changes to the network settings of this receiver.

<sup>2</sup> The IP address determined by the Auto IP function is 169.254.X.X. You cannot listen to an Internet radio station if the IP address is set for the Auto IP function.

### The Other Setup menu

The **Other Setup** menu is where you can make customized settings to reflect how you are using the receiver.

## **1** Set the remote control to the receiver operation mode, then press HOME MENU.

A Graphical User Interface (GUI) screen appears on your TV. Use  $\uparrow/\downarrow/\leftarrow/\rightarrow$  and **ENTER** to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

### 2 Select 'System Setup' from the Home Menu.

### 3 Select 'Other Setup', then press ENTER.

### 4 Select the setting you want to adjust.

If you are doing this for the first time, you may want to adjust these settings in order:

- HDMI Setup Synchronizes this receiver with your Pioneer component supporting **Control** with HDMI (page 69).
- Volume Setup Sets up the volume-related operations of this receiver (see below).
- Remote Control Mode Setup Sets this receiver's remote control mode (see below).
- Flicker Reduction Adjusts the way the GUI screen looks (page 116).
- **RF Remote Setup** (*SC-LX83 only*) Allows the CU-RF100 to be used even when the receiver is in the standby mode (page 116).
- EXTENSION Setup (SC-LX73 only) Allows the CU-RF100 to be used even when the receiver is in the standby mode (page 116).
- Multi Ch In Setup Specifies the optional settings for a multi-channel input (page 116).
- Pairing Bluetooth Setup Use to pair a *Bluetooth* ADAPTER and *Bluetooth* wireless technology device (page 55).

## 5 Make the adjustments necessary for each setting, pressing RETURN to confirm after each screen.

### Volume Setup

You can set the maximum volume of this receiver or specify what the volume level will be when the power is turned on.

### 1 Select 'Volume Setup' from the Other Setup menu.

### 2 Select the Power ON Level setting you want.

The volume can be set so that it is always set to the same level when the receiver's power is turned on.

- **LAST** (default) When the power is turned on, the volume is set to the same level as when the power was last turned off.
- "---" When the power is turned on, the volume is set to minimum level.
- -80.0dB to +12.0dB Specify the volume to be set when the power is turned on, in steps of 0.5 dB.

It is not possible to set a volume level greater than the value specified at Volume Limit setup (see below).

### 3 Select the Volume Limit setting you want.

Use this function to limit the maximum volume. The volume cannot be increased above the level set here, even by operating **MASTER VOLUME** button (or the dial on the front panel).

- OFF (default) The maximum volume is not limited.
- -20.0dB/-10.0dB/0.0dB The maximum volume is limited to the value set here.

### 4 Select the Mute Level setting you want.

This sets how much the volume is to be turned down when **MUTE** is pressed.

- FULL (default) No sound.
- -40.0dB/-20.0dB The volume will be turned down to the level specified here.

### 5 When you're finished, press RETURN.

You will return to the **Other Setup** menu.

### **Remote Control Mode Setup**

• Default setting: 1

This sets this receiver's remote control mode to prevent erroneous operation when multiple units of the receiver are being used.

## 1 Select 'Remote Control Mode Setup' from the Other Setup menu.

- 2 Select the Remote Control Mode setting you want.
- 3 Select "OK" to change the remote control mode.

## 4 Follow the instructions on the screen to change the remote control's setting.

See Operating multiple receivers on page 80 (SC-LX83)/ page 92 (SC-LX73).

**5 When you're finished, press RETURN.** You will return to the **Other Setup** menu.

### **Flicker Reduction Setup**

Default setting: OFF

The GUI screen's resolution can be increased. If you feel the GUI screen is hard to see, try changing this setting. Note that the resolution in this setting only affects the GUI screen; it has no influence on the video output.

## 1 Select 'Flicker Reduction Setup' from the Other Setup menu.

#### 2 Select the Flicker Reduction setting you want.

**3 When you're finished, press RETURN.** You will return to the **Other Setup** menu.

### RF Remote Setup (SC-LX83 only)

Default setting: OFF

The CU-RF100 can be used to operate the receiver by RF communications. To do so, set the **RF Remote** setting to **ON**. When **ON** is set here, the receiver can be operated even when the receiver is in the standby mode.

## 1 Select 'RF Remote Setup' from the Other Setup menu.

#### 2 Select the RF Remote setting you want.

3 When you're finished, press RETURN.

You will return to the Other Setup menu.

### EXTENSION Setup (SC-LX73 only)

• Default setting: OFF

The CU-RF100 can be used to operate the receiver by RF communications. To do so, set the **EXTENSION** setting to **ON**. When **ON** is set here, the receiver can be operated even when the receiver is in the standby mode.

## 1 Select 'EXTENSION Setup' from the Other Setup menu.

2 Select the EXTENSION setting you want.

### 3 When you're finished, press RETURN.

You will return to the **Other Setup** menu.

### **Multi Channel Input Setup**

You can adjust the level of the subwoofer for a multichannel input. Also, when the multi-channel input is selected as an input function, you can display the video images of other input functions. In the Multi Channel Input Setup, you can assign a video input to the multichannel input.

## 1 Select 'Multi Ch In Setup' from the Other Setup menu.

#### 2 Select the 'SW Input Gain' setting you want.

- **OdB** Outputs sound of the subwoofer at the level originally recorded on the source.
- **+10dB** Outputs sound of the subwoofer at the level increased by 10 dB.

### 3 Select the 'Video Input' setting you want.

When the multi-channel input is selected as an input function, you can display the video images of other input functions. The video input can be selected from the following: **DVD**, **TV/SAT**, **DVR/BDR**, **VIDEO**, **OFF**.

#### 4 When you're finished, press RETURN.

You will return to the Other Setup menu.

## Chapter 13: Additional information

### **Speaker Setting Guide**

In order to achieve an even better surround effect, it is important to accurately position the speakers and make their volume and tone characteristics uniform so as to finely focus the multi-channel sound.

The three major elements in positioning the speakers are **distance**, **angle** and **orientation** (the direction in which the speakers are pointing).

**Distance**: The distance of all the speakers should be equal.

Angle: The speakers should be horizontally symmetrical.

**Orientation**: The orientation should be horizontally symmetrical.

In most homes, however, it is not possible to achieve this environment. For the distance, on this receiver it is possible to automatically correct the speaker distance electrically to a precision of 1 cm using the Full Auto MCACC Setup function (page 42).

*SC-LX83 only:* For the volume and sound quality as well, accurate sound field correction using the equalizer and speaker phase characteristic correction using the Full Band Phase Control function (page 60) together make it possible to achieve the ideal listening environment.

### Step 1: Speaker layout and distance adjustment

Use speaker stands or the like to make sure the speakers are steady, and leave at least 10 cm from the surrounding walls. Position the speakers attentively so that the speakers on the left and right are at equal angles from the listening position (center of the adjustments). (We recommend using cords, etc., when adjusting the layout.) Ideally all the speakers should be equidistant from the listening position.

## 🗘 Тір

If the speakers cannot be set at equal distances (on a circle), use the Auto MCACC Setup speaker distance correction and Fine Speaker Distance (or Precision Distance – *SC-LX83 only*) functions to make them equalize the distance artificially.

### Step 2: Adjusting the speaker height

Adjust the heights (angles) of the different speakers. Adjust so that the front speaker units reproducing midand high frequencies is roughly at the height of the ears.

If the center speaker cannot be set at the same height as the front speakers, adjust its angle of elevation to point it to the listening position. Set surround speaker 1 so that it is not under the height of the ears.

### Step 3: Adjusting the speaker orientation

If the left and right speakers are not pointing in the same direction, the tone will not be the same on the right and left, and as a result the sound field will not be reproduced properly. However, if all the speakers are pointed towards the listening position, the sound field will seem cramped. Testing by the Pioneer Multi-channel Research Group has shown that a good sense of sound positioning can be achieved by pointing all the speakers towards an area 30 cm to 80 cm behind the listening position (between the surround speakers and the listening position).

However, the sense of sound positioning can differ according to the conditions in the room and the speakers being used. In smaller environments in particular (when the front speakers are close to the listening position), with this method the speakers will be pointed too inward. We suggest you use this example of installation as reference when trying out different installation methods.

### Step 4: Positioning and adjusting the subwoofer

Placing the subwoofer between the center and front speakers makes even music sources sound more natural (if there is only one subwoofer, it doesn't matter if it is placed on the left or right side). The low bass sound output from the subwoofer is not directional and there is no need to adjust the height. Normally the subwoofer is placed on the floor. Put it in a position at which it will not cancel out the bass sound output from the other speakers. Also note that placing it near a wall may result in sympathetic vibrations with the building that could excessively amplify the bass sound.

If the subwoofer must be installed near a wall, place it at an angle so that it is not parallel to the wall surface. This can help reduce any sympathetic vibrations, but depending on the shape of the room this could result in standing waves. However, even if standing waves are generated, their influence on the sound quality can be prevented using the Auto MCACC's standing wave control function (page 107).

## Step 5: Default settings with the Auto MCACC Setup (auto sound field correction) function

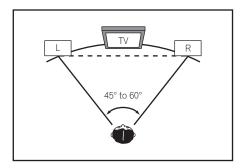
It is more effective to perform the Full Auto MCACC Setup (page 42) and Precision Distance (*SC-LX83 only*) (page 106) procedure once the adjustments described above have been completed. 🗘 Тір

• The distance to the subwoofer may be slightly larger than the distance actually measured with a tape measure, etc. This is because this distance is corrected for electric delay, and is not a problem.

## Positional relationship between speakers and monitor

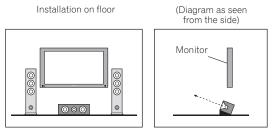
### Position of front speakers and monitor

The front speakers should be as equidistant as possible to the monitor.



### Position of center speaker and monitor

Since mostly dialogs are output from the center speaker, keeping the center speaker as close as possible to the screen makes the overall sound more natural. For TVs using Braun tubes, however, when installing the center speaker on the floor, adjust its angle of elevation to point it towards the listening position.



- If the center speaker is not of the shielded type, install it away from the TV.
- When installing the center speaker on top of the monitor, place it facing slightly downwards towards the listening position.

### Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest Pioneer authorized independent service company to carry out repair work.

## 🖉 Note

• If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

### Power

Symptom	Remedy
The power does not turn on.	<ul> <li>Make sure that the power cord is plugged in to an active power outlet.</li> </ul>
	<ul> <li>Try disconnecting from the power outlet, then plugging back in.</li> </ul>
	SC-LX83 only:
	• When remote control operation is set to RF two-way communications, the receiver's power cannot be turned on unless <b>RF Remote Setup</b> is set to <b>ON</b> (see <i>RF Remote Setup (SC-LX83 only)</i> on page 116).
	• When remote control operation is set to RF two-way communications, check whether the RF adapter is properly connected to the receiver.
Power cannot be turned off. ( <b>ZONE 2 ON</b> or <b>ZONE 3 ON</b> is displayed.)	• Set the remote control's <b>MULTI-ZONE</b> operation selector switch to <b>ZONE 2</b> or <b>ZONE 3</b> , then press <b>C RECEIVER</b> to switch the sub zone off.
The receiver suddenly switches off or the <b>iPod iPhone</b> indicator blinks.	<ul> <li>Check that there are no loose strands of speaker wire touching the rear panel or another set of wires. If so, re-attach the speaker wires, making sure there are no stray strands.</li> <li>The receiver may have a serious problem. Disconnect from the power and call a Pioneer authorized independent service company.</li> </ul>

### **Additional information**

Symptom	Remedy
During loud playback the power suddenly switches off.	• Turn down the volume.
	<ul> <li>Lower the 63 Hz and 125 Hz equalizer levels in the Manual MCACC setup on page 102.</li> </ul>
	• Switch on the digital safety feature. While holding down ENTER on the front panel, press
	O STANDBY/ON to set this receiver to the standby mode. Use TUNE ↑/↓ to select D.SAFETY
	<b>⊲OFF</b> ▶, and then use <b>PRESET ←</b> / <b>→</b> to select <b>1</b> or <b>2</b> (select <b>D.SAFETY ⊲OFF</b> ▶ to deactivate this feature). If the power switches off even with <b>2</b> switched on, turn down the volume. With <b>1</b> or <b>2</b> on,
	some features may be unavailable.
The unit does not respond	Try switching the receiver off, then back on again.
when the buttons are pressed.	• Try disconnecting the power cord, then connect again.
AMP ERR blinks in the display,	• The receiver may have a serious problem. Do not try switching the receiver on. Unplug the receiver
then the power automatically	from the wall and call a Pioneer authorized independent service company.
switches off. The <b>ADVANCED</b> <b>MCACC</b> blinks and the power	
does not turn on.	
The <b>PQLS</b> flashes and power	• There is a problem with the receiver's power unit or fan. Try turning on the power after 1 minute. If
turns off.	the same thing happens, the receiver is damaged. Unplug the receiver from the wall and call a
	Pioneer authorized independent service company. (Other symptoms may appear when the power is
	turned on.)
OVERHEAT blinks in the	<ul> <li>Allow the unit to cool down in a well-ventilated place before switching back on.</li> </ul>
display or AMP OVERHEAT	<ul> <li>Wait at least 1 minute, then try turning the power on again.</li> </ul>
and the power indicator flash	
and the power turns off.	
The receiver suddenly power	• The power unit is damaged. Unplug the receiver from the wall and call a Pioneer authorized
off or <b>ADVANCED MCACC</b> flashes.	independent service company.
Display blinks <b>12V TRG ERR</b> .	• An error has arisen in the 12 V trigger jacks. Reconnect accurately then turn the power back on.

### No sound

Symptom	Remedy
No sound is output when an	<ul> <li>Check the volume, mute setting (press MUTE) and speaker setting (press SPEAKERS).</li> </ul>
input function is selected.	<ul> <li>Make sure the correct input function is selected.</li> </ul>
No sound is output from the	<ul> <li>Check that the MCACC setup microphone is disconnected.</li> </ul>
front speakers.	• Make sure the correct input signal is selected (press <b>SIGNAL SEL</b> ). Note that when <b>PCM</b> is selected, you won't be able to hear any other signal format.
	• Check that the source component is connected properly (see <i>Connecting your equipment</i> on page 19).
	Check that the speakers are connected properly (see Connecting the speakers on page 23).
No sound from the surround or center speakers.	<ul> <li>Check that the Stereo listening mode or the Front Stage Surround Advance mode isn't selected; select one of the surround listening modes (see <i>Listening in surround sound</i> on page 56).</li> <li>Check that the surround/center speakers are not set to <b>NO</b> (see <i>Speaker Setting</i> on page 111).</li> <li>Check the channel level settings (see <i>Channel Level</i> on page 112).</li> </ul>
	• Check the speaker connections (see <i>Connecting the speakers</i> on page 23).
No sound from surround back speakers.	• Check that the surround back speakers are set to <b>LARGE</b> or <b>SMALL</b> , and the surround speakers are not set to <b>NO</b> (see <i>Speaker Setting</i> on page 111).
	• Check the speaker connections (see <i>Connecting the speakers</i> on page 23). If only one surround back speaker is connected, make sure it's connected to the left channel speaker terminal.
	• Surround back speakers will not play while the <b>Speaker System</b> is set to <b>Speaker B</b> and audio is being played through speaker B.
No sound from front height or front wide speakers.	• Check that the front height or front wide speakers are set to <b>LARGE</b> or <b>SMALL</b> , and the surround speakers are not set to <b>NO</b> (see <i>Speaker Setting</i> on page 111).
	• Check the speaker connections (see <i>Connecting the speakers</i> on page 23).

Symptom	Remedy
No sound from subwoofer.	Check that the subwoofer is connected properly, switched on and the volume turned up.
	<ul> <li>If your subwoofer has a sleep function, make sure it is switched off.</li> </ul>
	• Make sure that the Subwoofer setting is <b>YES</b> or <b>PLUS</b> (see <i>Speaker Setting</i> on page 111).
	• The crossover frequency may be set too low; try setting it higher to match the characteristics of your other speakers (see <i>Speaker Setting</i> on page 111).
	• If there is very little low frequency information in the source material, change your speaker settings to Front: <b>SMALL</b> / Subwoofer: <b>YES</b> , or Front: <b>LARGE</b> / Subwoofer: <b>PLUS</b> (see <i>Speaker Setting</i> on page 111).
	Check that the LFE channel is not set to <b>OFF</b> , or to a very quiet setting (see <i>Setting the Audio options</i> on page 72).
	Check the speaker level settings (see Channel Level on page 112).
No sound from one speaker.	• Check the speaker connection (see Connecting the speakers on page 23).
	<ul> <li>Check the speaker level settings (see Channel Level on page 112).</li> </ul>
	<ul> <li>Check that the speaker hasn't been set to NO (see Speaker Setting on page 111).</li> </ul>
	• The channel may not be recorded in the source. By using one of the advanced effect listening modes, you may be able to create the missing channel (see <i>Listening in surround sound</i> on page 56).
Sound is produced from	• Check that the input signal type is set to <b>DIGITAL</b> (see <i>Choosing the input signal</i> on page 59).
analog components, but not from digital ones (DVD, LD, CD-ROM, etc.).	• Make sure that the digital input is assigned correctly for the input jack the component is connected to (see <i>The Input Setup menu</i> on page 44).
	<ul> <li>Check the digital output settings on the source component.</li> </ul>
	• If the source component has a digital volume control, make sure this is not turned down.
	• Make sure that the multichannel analog inputs are not selected. Select any other input function.
No sound is output or a noise is	<ul> <li>Check that your DVD player is compatible with Dolby Digital/DTS discs.</li> </ul>
output when Dolby Digital/DTS software is played back.	• Check the digital output settings of your DVD player. Make sure that the DTS signal output is set to On.
	If the source component has a digital volume control, make sure this is not turned down.
No sound when using the <b>Home Menu</b> .	• If the HDMI input function is selected, sound is muted until exiting the <b>Home Menu</b> .

### Other audio problems

Symptom	Remedy
Broadcast stations cannot be selected automatically, or there is considerable noise in radio broadcasts.	<ul> <li>For FM broadcasts</li> <li>Fully extend the FM wire antenna, adjust the position for best reception and secure to a wall, etc.</li> <li>Use an outdoor antenna for better reception (see page 36).</li> <li>For AM broadcasts</li> <li>Adjust the position and direction of the AM antenna.</li> <li>Use an outdoor antenna for better reception (see page 36).</li> <li>Noise may be caused by interference from other equipment, such as a fluorescent light, motor, etc. Switch off or move the other equipment, or move the AM antenna.</li> </ul>
Noise is output when scanning a DTS CD.	• This is not a malfunction of the receiver. The scan function of your player alters the digital information, making it unreadable, resulting in noise being output. Lower the volume when scanning.
When playing a DTS format LD there is audible noise on the soundtrack.	• Make sure that the input signal type is set to <b>DIGITAL</b> (see <i>Choosing the input signal</i> on page 59).
Can't record audio.	<ul> <li>You can only make a digital recording from a digital source, and an analog recording from an analog source.</li> <li>For digital sources, make sure that what you're recording isn't copy protected.</li> <li>Check that the <b>OUT</b> jacks are properly connected to the recorders input jacks (see <i>Connecting the multichannel analog inputs</i> on page 33).</li> </ul>
Subwoofer output is very low.	• To route more signal to the subwoofer, set it to <b>PLUS</b> or set the front speakers to <b>SMALL</b> (see <i>Speaker Setting</i> on page 111).
Everything seems to be set up correctly, but the playback sound is odd.	• The speakers may be out of phase. Check that the positive/negative speaker terminals on the receiver are matched with the corresponding terminals on the speakers (see <i>Connecting the speakers</i> on page 23).

### **Additional information**

Symptom	Remedy
The <b>PHASE CONTROL</b> feature doesn't seem to have an audible effect.	<ul> <li>If applicable, check that the lowpass filter switch on your subwoofer is off, or the lowpass cutoff is set to the highest frequency setting. If there is a <b>PHASE</b> setting on your subwoofer, set it to 0° (or depending on the subwoofer, the setting where you think it has the best overall effect on the sound).</li> <li>Make sure the speaker distance setting is correct for all speakers (see <i>Speaker Distance</i> on page 112).</li> </ul>
<i>SC-LX83 only:</i> Full Band Phase Control cannot be selected.	• Perform Full Auto MCACC measurements (see <i>Automatically conducting optimum sound tuning</i> ( <i>Full Auto MCACC</i> ) on page 42). Full Band Phase Control automatically turns on once measurements are completed.
Noise or hum can be heard even when there is no sound being input.	• Check that personal computers or other digital components connected to the same power source are not causing interference.
Can't select some Input functions by the <b>INPUT</b> <b>SELECTOR</b> on the front panel or the <b>INPUT SELECT</b> button on the remote control.	<ul> <li>Check the Input Skip settings in the Input Setup menu.</li> <li>Check the HDMI Input assignment in the Input Setup menu then try OFF.</li> </ul>
There seems to be a time lag between the speakers and the output of the subwoofer.	• See Automatically conducting optimum sound tuning (Full Auto MCACC) on page 42 to set up your system again using MCACC (this will automatically compensate for a delay in the subwoofer output).
The maximum volume available (shown in the front panel display) is lower than the +12dB maximum.	<ul> <li>Check that the Volume Limit is set to <b>OFF</b> (see <i>Volume Setup</i> on page 115).</li> <li>The channel level setting may be over <b>0dB</b>.</li> </ul>

### ADAPTER PORT

Symptom	Remedy
The <i>Bluetooth</i> wireless technology device cannot be connected or operated. Sound from the <i>Bluetooth</i> wireless technology device is not emitted or the sound is interrupted.	<ul> <li>Check that no object that emits electromagnetic waves in the 2.4 GHz band (microwave oven, wireless LAN device or <i>Bluetooth</i> wireless technology apparatus) is near the unit. If such an object is near the unit, set the unit far from it. Or, stop using the object emitting the electromagnetic waves.</li> <li>Check that the <i>Bluetooth</i> wireless technology device is not too far from the unit and that obstructions are not set between the <i>Bluetooth</i> wireless technology device and the unit. Set the <i>Bluetooth</i> wireless technology device and the unit so that the distance between them is less than about 10 m and no obstructions exist between them.</li> <li>Check that the <i>Bluetooth</i> ADAPTER and the <b>ADAPTER PORT</b> of the unit are correctly connected.</li> <li>The <i>Bluetooth</i> wireless technology device may not be set to the communication mode supporting the <i>Bluetooth</i> wireless technology. Check the setting of the <i>Bluetooth</i> wireless technology device.</li> <li>Check that pairing is correct. The pairing setting was deleted from this unit or the <i>Bluetooth</i> wireless technology device.</li> <li>Check that the profile is correct. Use a <i>Bluetooth</i> wireless technology device that supports A2DP profile.</li> </ul>

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### Video

Symptom	Remedy
No image is output when an input is selected.	<ul> <li>Check the video connections of the source component (see page 31).</li> <li>For HDMI, or when digital video conversion is set to <b>OFF</b> and a TV and another component are connected with different cords (in <i>Setting the Video options</i> on page 74), you must connect your TV to this receiver using the same type of video cable as you used to connect your video component.</li> <li>Make sure the input assignment is correct for components connected using component video or HDMI cables (see <i>The Input Setup menu</i> on page 44).</li> <li>Check the video output settings of the source component.</li> <li>Check that the video input you selected on your TV is correct.</li> <li>Some components (such as video game units) have resolutions that may not be converted. If adjusting this receiver's Resolution setting (in <i>Setting the Video options</i> on page 74) and/or the resolution settings on your component or display doesn't work, try switching Digital Video Conversion (in <i>Setting the Video options</i> on page 74) to <b>OFF</b>.</li> </ul>
Can't record video.	<ul> <li>Check that the source is not copy-protected.</li> <li>The video converter is not available when making recordings. Check that the same type of video cable is used for connecting both the recorder and the video source (the one you want to record) to this receiver.</li> </ul>
Noisy, intermittent, or distorted picture.	• Sometimes a video deck may output a noisy video signal (during scanning, for example), or the video quality may just be poor (with some video game units, for example). The picture quality may also depend on the settings, etc. of your display device. Switch off the video converter and reconnect the source and display device using the same type of connection (component or composite), then start playback again.
Video signals are not output from the component terminal.	<ul> <li>When a monitor only compatible with resolutions of 480i is connected to the component terminal and another monitor is connected to the HDMI terminal, the video signals may not be output to the monitor connected to the component terminal. If this happens, do the following: <ul> <li>Turn off the power of the monitor connected to the HDMI terminal.</li> <li>Change the VIDEO PARAMETER menu RES setting.</li> <li>Video signals from the HDMI terminal cannot be output to the component terminals. Input the video signals from the player or other source to the composite or component terminals. When using the component terminal, assign it at Input Setup.</li> </ul> </li> </ul>

### Settings

Symptom	Remedy
The Auto MCACC Setup continually shows an error.	• The ambient noise level may be too high. Keep the noise level in the room as low as possible (see also <i>Problems when using the Auto MCACC Setup</i> on page 44). If the noise level cannot be kept low enough, you will have to set up the surround sound manually (page 110).
	• When using only one surround back speaker, connect it to the <b>SURROUND BACK L</b> (Single) terminals.
	• To use a 5.1-channel speaker set, use the surround speakers for the surround channel, not the surround back channel.
	<ul> <li>Make sure there are no obstacles between the speakers and the microphone.</li> </ul>
	<ul> <li>If Reverse Phase is displayed, try the following:</li> </ul>
	– The speaker's wiring (+ and –) may be inverted. Check the speaker connections.
	- Depending on the type of speakers and their installation conditions, <b>Reverse Phase</b> may be displayed even if the speakers are properly connected. If this happens, select <b>GO NEXT</b> and continue.
	<ul> <li>If the speaker is not pointed to the microphone (listening position) or when using speakers that affect the phase (dipole speakers, reflective speakers, etc.), it may not be possible to properly identify the polarity.</li> </ul>
After using the Auto MCACC Setup, the speaker size setting	• There may have been some low frequency noise in the room from an air-conditioner, motor, etc. Switch off all other appliances in the room and use Auto MCACC Setup again.
is incorrect.	• Depending on a number of factors (bass reproduction capabilities of the speakers, room size, speaker placement, etc.) this may occur in some cases. Change the speaker setting manually in <i>Speaker Setting</i> on page 111, and use the <b>ALL (Keep SP System)</b> option for the <b>Auto MCACC</b> menu in <i>Automatic MCACC (Expert)</i> on page 100 if this is a recurring problem.
Can't adjust the Fine Speaker Distance setting (page 103) properly.	• Check that the speakers are all in phase (make sure the positive (+) and negative (-) terminals are matched up properly).

### **Additional information**

Symptom	Remedy
<i>SC-LX83 only:</i> Gauge (value) does not increase with the	• Check that the speakers are all in phase (make sure the positive (+) and negative (-) terminals are matched up properly).
Precision Distance adjustment.	• Perform the <b>Full Auto MCACC</b> procedure before the Precision Distance adjustment (see <i>Automatically conducting optimum sound tuning (Full Auto MCACC)</i> on page 42).
	• Place the microphone accurately in the same position as when the Full Auto MCACC procedure was performed.
	• Do not move the speaker used as the reference point. Also, adjust in order, starting from the front right speaker.
	• When adjusting the speaker positions, do not move the speakers much; only move them about 2 cm towards or away from the microphone.
	• If you forget exactly where the microphone should be positioned or if there are problems after the procedure has been performed repeatedly, re-calibrate the distance using the Full Auto MCACC procedure, then without moving the microphone redo the Precision Distance adjustment.
The display shows <b>KEY LOCK ON</b> when you try to make settings.	• With the receiver in standby, press () <b>STANDBY/ON</b> for about 10 seconds while holding down <b>SPEAKERS</b> to disable the key lock.
Most recent settings have been	<ul> <li>The power cord was disconnected from the wall while adjusting this setting.</li> </ul>
erased.	• Settings are only stored if all the zones are turned off. Turn off all the zones before unplugging the power cord.
The various system settings are not stored.	• Make sure the blue <b>ひ STANDBY/ON</b> light has gone out before unplugging.

### Professional Calibration EQ graphical output

Symptom	Remedy
The EQ response displayed in the graphical output following calibration does not appear entirely flat.	• There are cases where the graph does not appear flat (even when selecting <b>ALL CH ADJ</b> in the Auto MCACC Setup) due to adjustments made to compensate for room characteristics to achieve optimal sound.
	• Areas of the graph may appear identical (before and after) when there is little or no adjustment needed.
	• The graph may appear to have shifted vertically when comparing before and after measurements.
EQ adjustments made using the <i>Manual MCACC</i> setup on page 102 do not appear to change the graphical output.	• Despite level adjustments being made, the filters used for analysis may not display these adjustments in the graphical output. However, these adjustments are taken into account by the filters dedicated to overall system calibration.
Lower frequency response curves do not seem to have been calibrated for <b>SMALL</b> speakers.	<ul> <li>Low frequencies used in bass management (the subwoofer channel) will not change for speakers that have been specified as SMALL in the configuration, or do not output these frequencies.</li> <li>Calibration is performed, but due to your speakers' low frequency limitations, no measurable sound is output for display.</li> </ul>

Display

Symptom	Remedy	
The display is dark or off.	<ul> <li>Press DIMMER repeatedly to select a different brightness.</li> </ul>	
You can't get <b>DIGITAL</b> to display when using <b>SIGNAL</b>	• Check the digital connections and make sure that the digital inputs are assigned correctly (see <i>The Input Setup menu</i> on page 44).	
SEL.	<ul> <li>If the multichannel analog inputs are selected, select a different input function.</li> </ul>	
DID DIGITAL or DTS does not light when playing Dolby/DTS software.		
When playing Dolby Digital or DTS sources, the receiver's format indicators do not light.	<ul> <li>Check that the player is connected using a digital connection.</li> <li>Make sure that the receiver is set to AUTO or DIGITAL (see <i>Choosing the input signal</i> on page 59)</li> <li>Check that the player isn't set up so that Dolby Digital and DTS sources are converted to PCM.</li> <li>Ensure that if there are several audio tracks on the disc, the Dolby Digital or DTS is selected.</li> </ul>	
When playing certain discs, none of the receiver's format indicators light.	• The disc may not contain 5.1/6.1 channel material. Check the disc packaging for more on what audio tracks are recorded on the disc.	

Symptom	Remedy		
When playing a disc with the	Make sure that the receiver is set to AUTO or DIGITAL (see Choosing the input signal on page 59).		
listening mode set to Auto	• If a two channel soundtrack is currently playing (including Dolby Surround encoded), then this is		
Surround or ALC, <b>DD PL II</b> or <b>Neo:6</b> appear on the receiver.	not a malfunction. Check the disc packaging for details about the audio tracks available.		
During playback of DVD-Audio, the display shows <b>PCM</b> .	<ul> <li>This will occur when playing DVD-Audio material over the HDMI connection. This is not a malfunction.</li> </ul>		
The power turns off	See the <b>Power</b> section (page 118).		
automatically and some			
indicator flashes, or some			
indicator flashes and the power does not turn on.			
Remote control			
Symptom	Remedy		
Cannot be remote controlled.	• Set the remote control unit's remote control mode so that it matches the setting on the main unit (see <i>Operating multiple receivers</i> on page 80 (SC-LX83)/page 92 (SC-LX73)).		
	• Check whether the receiver's remote control mode is properly set (see <i>Remote Control Mode Setup</i> on page 115).		
	• Try replacing the batteries in the remote control (see <i>Loading the batteries</i> on page 9).		
	• Be sure to operate within 7 m and a 30° angle of the remote sensor on the front panel (see <i>Operating range of remote control unit</i> on page 10).		
	<ul> <li>Check that there are no obstacles between the receiver and the remote control.</li> </ul>		
	• Make sure that there is no fluorescent or other strong light shining on to the remote sensor.		
	• Check the connections of the <b>CONTROL IN</b> jacks (see <i>Operating other Pioneer components with this unit's sensor</i> on page 40).		
<i>SC-LX83 only:</i> Receiver or other components cannot be operated by RF two-way	• There may be radio interference with other devices. Try increasing the distance from microwave ovens, devices on a wireless LAN, other wireless devices, etc. (see <i>Precautions when using the Omni-Directional RF Remote Control</i> on page 90).		
communications.	• Try replacing the batteries in the remote control (see <i>Loading the batteries</i> on page 9).		
	• If the RF adapter's LED is off, the RF adapter may not be properly connected to the receiver. Check whether the RF adapter is properly connected to the receiver (see <i>Connecting the RF adapter (SC-LX83 only)</i> on page 20).		
	The devices may no longer be properly paired. Pair them again (see <i>Pairing the RF adapter and remote control</i> on page 88).		
	• When the remote control or main unit are reset, the RF communications function is also reset. Make the settings again (see <i>Using the RF communications function</i> on page 87).		
<i>SC-LX83 only:</i> The remote control display flickers.	• Flickering may occur when the remaining battery power is low. Replace the batteries with new ones (see <i>Loading the batteries</i> on page 9).		
Other components can't be	• If the battery ran down, the preset codes may have been cleared. Re-enter the preset codes.		
operated with the system	The preset code may be incorrect. Redo the procedure for entering preset codes.		
remote.	• When commands from the remote control units of other devices are registered using the learning function, in some cases they may not be learned properly. In this case, register the commands again using the learning function (see <i>Programming signals from other remote controls</i> on page 81 (SC-LX83) / page 93 (SC-LX73)). If they still do not work, they may be in a special format that cannot be registered on this receiver's remote control. Operate the device using another remote control.		

### Web Control

Symptoms	Causes	Remedies
Top Menu screen is not displayed on browser.	This receiver's IP address has not been entered into the browser correctly.	Check the receiver's IP address and enter it correctly in the browser (page 113).
Receiver cannot be operated	JavaScript is disabled on the internet browser.	Enable JavaScript.
from browser.	The browser is not compatible with JavaScript.	Use an internet browser that is compatible with JavaScript.

### **Additional information**

Symptoms Receiver's power does not turn on when the power is turned on using the Web Control function.	Causes Network Standby at Network Setup is set to OFF.	Remedies Set Network Standby at Network Setup to ON (page 113).	
HDMI			
Symptom	Remedy		
The HDMI indicator blinks continuously.	Check all the points below.		
No picture or sound.	<ul> <li>This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the component or composite video jacks.</li> <li>Depending on the connected source component, it's possible that it will not work with this receiver (even if it is HDCP-compatible). In this case, connect using the component or composite video jacks between source and receiver.</li> <li>If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or manual or contact the manufacturer for support.</li> <li>If video images do not appear on your TV, try adjusting the resolution, Deep Color or other setting for your component.</li> <li>While analog video signals are being output over HDMI, use a separate connection for audio output.</li> </ul>		
	• To output signals in Deep Color, use an HDMI cable (High Speed HDMI <sup>®</sup> Cable) to connect this receiver to a component or TV with the Deep Color feature.		
No picture.	<ul> <li>Try changing the Resolution setting (in <i>Setting the Video options</i> on page 74).</li> <li>Set the HDMI output setting to the connected HDMI OUT terminal (in <i>Switching the HDMI output</i> on page 77).</li> </ul>		
No sound, or sound suddenly	Check that the HDMI AV setting is set to AMP/THROUGH.		
ceases.	• If the component is a DVI device, use a separate connection for the audio.		
	<ul> <li>If analog video is being output over HDMI, please use a separate connection for the audio.</li> </ul>		
	• Turning on/off the device connected to this un	ire a longer time to be recognized. Due to this, ning between audio formats or beginning playback.	
Noisy or distorted picture.	<ul> <li>Sometimes a video deck may output a noisy video signal (during scanning, for example), or the video quality may just be poor (with some video game units, for example). The picture quality may also depend on the settings, etc. of your display device. Switch off the video converter and reconnect the source and display device using the same type of connection (component or composite), then start playback again.</li> <li>If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.</li> </ul>		
HDCP ERROR shows in the display.	<ul> <li>Check whether or not the connected component is compatible with HDCP. If it is not compatible with HDCP, reconnect the source device using a different type of connection (component or composite). Some components that are compatible with HDCP still cause this message to be displayed, but so long as there is no problem with displaying video, this is not a malfunction.</li> </ul>		
When <b>Control</b> with HDMI is set to <b>ON</b> , the <b>HDMI Input</b> assignment at <b>Input Setup</b> is canceled.	• Even when <b>Control</b> with HDMI is set to <b>ON</b> , for <b>Digital In</b> assignment of <b>HDMI 1</b> is not canceled, so in this case use the <b>HDMI 1</b> input.		
Synchronized operation not	Check the HDMI connections.		
possible using <b>Control</b> with HDMI function.	• The cable may be damaged.		
	• Select <b>ON</b> for the <b>Control</b> with HDMI setting (see <i>HDMI Setup</i> on page 69).		
	<ul> <li>Select ALL for the Control Mode with HDMI setting (see HDMI Setup on page 69).</li> <li>Ture the TV's power on before turning on this receiver's power.</li> </ul>		
	<ul> <li>Turn the TV's power on before turning on this receiver's power.</li> <li>Set the TV side Control with HDMI setting to on (see TV's operating instructions).</li> </ul>		
	<ul> <li>Set the TV side Control with DMI Setting to on See TV's operating instructions).</li> <li>Connect the TV to the HDMI OUT 1 terminal and set the HDMI output to HDMI OUT 1. Then turn on first the TV's power than this receiver's nower.</li> </ul>		

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### Important information regarding the HDMI connection

There are cases where you may not be able to route HDMI signals through this receiver (this depends on the HDMIequipped component you are connecting–check with the manufacturer for HDMI compatibility information). If you aren't receiving HDMI signals properly through this receiver (from your component), please try one of the following configurations when connecting up.

### **Configuration A**

Use component video cables to connect the video output of your HDMI-equipped component to the receiver's component video input. The receiver can then convert the analog component video signal to a digital HDMI signal for transmission to the display. For this configuration, use the most convenient connection (digital is recommended) for sending audio to the receiver. See the operating instructions for more on audio connections.

### 🖉 Note

• The picture quality will change slightly during conversion.

### **Configuration B**

Connect your HDMI-equipped component directly to the display using an HDMI cable. Then use the most convenient connection (digital is recommended) for sending audio to the receiver. See the operating instructions for more on audio connections. Set the display volume to minimum when using this configuration.

### 🖉 Note

- If your display only has one HDMI terminal, you can only receive HDMI video from the connected component.
- Depending on the component, audio output may be limited to the number of channels available from the connected display unit (for example audio output is reduced to 2 channels for a monitor with stereo audio limitations).
- If you want to switch the input function, you'll have to switch functions on both the receiver and your display unit.
- Since the sound is muted on the display when using the HDMI connection, you must adjust the volume on the display every time you switch input functions.

Symptoms	Causes	Remedies
The folders/files stored on a USB memory device are not	The folders/files are currently stored in a region other than the FAT (File Allocation Table) region.	Store the folders/files in the FAT region.
displayed.	The number of levels in a folder is more than 8.	Limit the maximum number of levels in a folder to 8 (page 48).
	There are more than 30 000 folders/files stored in a USB memory device.	Limit the maximum number of folders/files stored in a USB memory device to 30 000 (page 48).
	The audio files are copyrighted.	Copyrighted audio files stored on a USB memory device cannot be played back (page 48).
A USB memory device is not recognized.	The USB memory device does not support the mass storage class specifications.	Try using a USB memory device compatible with the mass storage class specifications. Note that there are cases where even the audio files stored on a USB memory device compatible with the mass storage class specifications are not played back on this receiver (page 48).
		Connect the USB memory device and switch on this receiver (page 39).
	A USB hub is currently being used.	This receiver does not support USB hubs (page 48).
	This receiver recognizes the USB memory device as a fraud.	Switch off and on again this receiver.

### **USB** interface

### **Additional information**

Symptoms	Causes	Remedies
A USB memory device is connected and displayed, but the audio files stored on the USB memory device cannot	Some formats of USB memory devices, including FAT 12, NTFS, and HFS, cannot be played back on this receiver.	Check whether the format of your USB memory device is either FAT 16 or FAT 32. Note that the FAT 12, NTFS, and HFS formats cannot be played back on this receiver (page 48).
be played back.	The file format cannot be properly played back on this receiver.	See the list of file formats that can be played back on this receiver (page 50).
Cannot detect USB keyboard.	The USB keyboard is routed through a USB hub.	This receiver is not compatible with USB hubs. Plug the keyboard directly into the receiver.
	A PS2 keyboard is routed through a PS2/USB connector.	PS2 keyboards cannot be used with this receiver, even if routed through a PS2/USB connector. Use a USB keyboard.
	Keyboard is not a USB HID Class device.	Some devices will not be detected. Use a USB HID Class keyboard.
Cannot enter correct text using the USB keyboard.	Keyboard is not US-international layout keyboard.	Use a US-international layout keyboard. NB: Some characters cannot be entered.

### Internet radio (SC-LX73 only)

Symptoms	Causes	Remedies
Cannot access the network.	The LAN cable is not firmly connected.	Firmly connect the LAN cable (page 37).
(" <b>Connection Error</b> " shows in the display.)	The router is not switched on.	Switch on the router.
the display.)	The network device was switched on when this receiver was already on.	Switch the network device on before the receiver.
Cannot listen to Internet radio stations.	The firewall settings for components on the network are currently in operation.	Check the firewall settings for components on the network.
(" <b>Connection Error</b> " shows in the display.)	You are currently disconnected from the Internet.	Check the connection settings for components on the network, and consult with your network service provider if necessary (page 113).
	The URL for the Internet radio station is incorrectly programmed.	Check that the URL was correctly entered when programming.
	The broadcasts from an Internet radio station are stopped or interrupted.	Broadcasts may be interrupted or suspended by the radio station.
	An Internet radio station is selected whose protocol this receiver does not recognize.	This receiver does not recognize protocols other than 'http' and 'mms'.
	An Internet radio station had closed or moved.	Enter new internet radio station on the Internet Radio Setup.
Cannot listen to Internet radio stations. ("File Format Error" shows in the display.)	Broadcast is in a format not compatible with this receiver.	This receiver cannot play audio in formats other than MP3 or WMA. Also, even if they are MP3 or WMA formats, this receiver may not be able to play back.
The Internet radio settings screen cannot be displayed on	This receiver's IP address has not been entered into the browser correctly.	Check the receiver's IP address and enter it correctly on the browser (page 113).
the computer Internet browser.	JavaScript is disabled on the Internet browser.	Enable JavaScript.
	The browser is not compatible with JavaScript.	Use an Internet browser that is compatible with JavaScript.

### HOME MEDIA GALLERY (SC-LX83 only)

Symptoms	Causes	Remedies	
Cannot access the network.	The LAN cable is not firmly connected.	Firmly connect the LAN cable (page 37).	
	The router is not switched on.	Switch on the router.	
	Internet security software is currently installed in the connected component.	There are cases where a component with Internet security software installed cannot be accessed.	
	The audio component on the network which has been switched off is switched on.	Switch on the audio component on the network before switching on this receiver.	
Playback does not start while <b>'Connecting'</b> continues to be displayed.	The component is currently disconnected from this receiver or the power supply.	Check whether the component is properly connected to this receiver or the power supply.	
The PC or Internet radio is not properly operated.	The corresponding IP address is not properly set.	Switch on the built-in DHCP server function of your router, or set up the network manually according to your network environment (page 113).	
	The IP address is being automatically configured.	The automatic configuration process takes time. Please wait.	
The audio files stored on components on the network,	Windows Media Player 11 or Windows Media Player 12 is not currently installed on your PC.	Install Windows Media Player 11 or Windows Media Player 12 on your PC (page 61).	
such as a PC, cannot be played back.	Audio files were recorded in formats other than MP3, WAV (LPCM only), MPEG-4 AAC, FLAC, and WMA.	Play back audio files recorded in MP3, WAV (LPCM only), MPEG-4 AAC, FLAC, or WMA. Note that some audio files recorded in these formats may not be played back on this receiver.	
	Audio files recorded in MPEG-4 AAC or FLAC are being played back on Windows Media Player 11 or Windows Media Player 12.		
	The component connected to the network is not properly operated.	Check whether the component is affected by special circumstances or is in the sleep mode.	
		Try rebooting the component if necessary.	
	The component connected to the network does not permit file sharing.	Try changing the settings for the component connected to the network.	
	The folder stored on the component connected to the network has been deleted or damaged.	Check the folder stored on the component connected to the network.	
Cannot access the component connected to the network.	The component connected to the network is not properly set.	If the client is automatically authorized, you need to enter the corresponding information again. Check whether the connection status is set to "Do not authorize".	
	There are no playable audio files on the component connected to the network.	Check the audio files stored on the component connected to the network.	
Audio playback is undesirably stopped or disturbed.	The audio file currently being played back was not recorded in a format playable on this receiver.	Check whether the audio file was recorded in a format supported by this receiver. Check whether the folder has been damaged or corrupted. Note that there are cases where even the audio files listed as playable on this receiver cannot be played back or displayed (page 66).	
	The LAN cable is currently disconnected.	Connect the LAN cable properly (page 37).	
	There is heavy traffic on the network with the Internet being accessed on the same network.	Use 100BASE-TX to access the components on the network.	
	When in the DMR mode, depending on the external controller being used, playback may be interrupted when a volume operation is performed from the controller.	In this case, adjust the volume from the receiver or remote control.	

### **Additional information**

Symptoms	Causes	Remedies
Cannot access Windows Media Player 11 or Windows Media Player 12.	<i>In case of Windows Media Player 11:</i> You are currently logged onto the domain through your PC with Windows XP or Windows Vista installed. <i>In case of Windows Media Player 12:</i> You are currently logged onto the domain through your PC with Windows 7 installed.	Instead of logging onto the domain, log onto the local machine (page 62).
Cannot listen to Internet radio stations	The firewall settings for components on the network are currently in operation.	Check the firewall settings for components on the network.
	You are currently disconnected from the Internet.	Check the connection settings for components on the network, and consult with your network service provider if necessary (page 113).
	The broadcasts from an Internet radio station are stopped or interrupted.	There are cases where you cannot listen to some Internet radio stations even when they are listed in the list of Internet radio stations on this receiver (page 63).
The Home Media Gallery cannot be operated with the buttons on the remote control.	The remote control is not currently set to the Home Media Gallery mode.	Press <b>HMG</b> to set the remote control to the Home Media Gallery mode (page 62).

### About status messages (SC-LX83 only)

Refer to the following information when you come up with a status message while operating the Home Media Gallery.

Status messages	Descriptions	
STARTING H.M.G.	A component on the network, including a PC, is currently being connected. Wait for a while.	
Connection Down	The selected category or Internet radio station cannot be accessed.	
File Format Error	Cannot be played back for some reasons.	
Track Not Found	The selected song has not been found anywhere on the network.	
Server Error	The selected server cannot be accessed.	
Server Disconnected	The server has been disconnected.	
empty	There are no files stored in the selected folder.	
Preset Not Stored	The selected Internet radio station is not currently registered and saved.	
Out of Range	The value entered is beyond the permitted range of the network settings.	
License Error	The license for the contents to be played back is invalid.	
Item Already Exists	This is displayed when the file you have attempted to register in the Favorites folder has already been registered.	
Favorite List Full	This is displayed when you have attempted to register a file in the Favorites folder but the Favorites folder is already full.	

If the problem is not solved after the troubleshooting above, if the screen freezes unexpectedly or if the buttons on the remote control or front panel stop working completely, do the following:

- Press **O STANDBY/ON** on the front panel to turn off the power, then turn the power back on.
- If the power cannot be turned off, press and hold **(b) STANDBY/ON** on the front panel for over 10 seconds. The power will turn off. (In this case, the various settings made on the receiver may be cleared.)

### Surround sound formats

Below is a brief description of the main surround sound formats you'll find on BDs, DVDs, satellite, cable and terrestrial broadcasts, and video cassettes.

### Dolby

The Dolby technologies are explained below. See www.dolby.com for more detailed information.



Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX" and the double-D symbol are trademarks of Dolby Laboratories.

### DTS

The DTS technologies are explained below. See www.dtstech.com for more detailed information.





Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

### Windows Media Audio 9 Professional

Windows Media Audio 9 Professional (WMA9 Pro) is a discrete surround format developed by Microsoft Corporation.



Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

### About THX

The THX technologies are explained below. See www.thx.com for more detailed information. *In case of SC-LX83* 



In case of SC-LX73



### • THX Cinema processing

THX is an exclusive set of standards and technologies established by THX Ltd. THX grew from George Lucas' personal desire to make your experience of the film soundtrack, in both movie theatres and in your home theatre, as faithful as possible to what the director intended. Movie soundtracks are mixed in special movie theatres called dubbing stages and are designed to be played back in movie theatres with similar equipment and conditions. This same soundtrack is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theatre environment. THX engineers developed patented technologies to accurately translate the sound from the movie theatre environment into the home, correcting the tonal and spatial errors that occur. On this product, when the THX indicator is on, THX features are automatically added in Cinema modes (e.g. THX Cinema, THX Surround EX).

### Re-Equalization

The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home because film soundtracks were designed to be played back in large movie theaters using very different professional equipment. Re-Equalization restores the correct tonal balance for watching a movie soundtrack in a small home environment.

### Timbre Matching

The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theatre, there is an array of surround speakers so that the surround information is all around you. In a home theatre, you use only two speakers located to the side of your head. The Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless panning between the front and surround speakers.

### • Adaptive Decorrelation

In a movie theatre, a large number of surround speakers help create an enveloping surround sound experience, but in a home theatre there are usually only two speakers. This can make the surround speakers sound like headphones that lack spaciousness and envelopment. The surround sounds will also collapse into the closest speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel's time and phase relationship with respect to the other surround channel. This expands the listening position and creates—with only two speakers the same spacious surround experience as in a movie theatre.

#### • THX Ultra2/Select2 Plus

Before any home theatre component can be THX Ultra2/Select2 Plus certified, it must incorporate all the features above and also pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2/Select2 Plus logo, which is your guarantee that the Home Theatre products you purchase will give you superb performance for many years to come. THX Ultra2/Select2 Plus requirements cover every aspect of the product including preamplifier and power amplifier performance and operation, and hundreds of other parameters in both the digital and analog domain.

#### THX Surround EX

THX Surround EX - Dolby Digital Surround EX is a joint development of Dolby Laboratories and the THX Ltd. In a movie theater, film soundtracks that have been encoded with Dolby Digital Surround EX technology are able to reproduce an extra channel which has been added during the mixing of the program. This channel, called Surround Back, places sounds behind the listener in addition to the currently available front left, front center, front right, surround right, surround left and subwoofer channels. This additional channel provides the opportunity for more detailed imaging behind the listener and brings more depth, spacious ambience and sound localization than ever before. Movies that were created using the Dolby Digital Surround EX technology, when released into the home consumer market may exhibit wording to that effect on the packaging. A list of movies created using this technology can be found on the Dolby web site at www.dolby.com.

Only amplifier and controller products bearing the THX Surround EX logo, when in the THX Surround EX mode, faithfully reproduce this new technology in the home.

This product may also engage the "THX Surround EX" mode during the playback of 5.1 channel material that is not Dolby Digital

Surround EX encoded. In such case the information delivered to the Surround Back channel will be program dependent and may or may not be very pleasing depending on the particular soundtrack and the tastes of the individual listener.

#### Boundary Gain Compensation<sup>™</sup>

Depending on the listener's and the subwoofer's position, the listener may experience an excessive bass effect. This feature compensates for excessive bass resulting from a boundary gain effect. This feature is designed to operate when used with a subwoofer certified to THX Ultra2/Select2<sup>™</sup> specifications.

#### THX Loudness Plus Description

THX Loudness Plus is a new volume control technology featured in THX Ultra2 Plus<sup>™</sup> and THX Select2 Plus<sup>™</sup> Certified amplifiers. With THX Loudness Plus, home theater audiences can now experience the rich details in a surround mix at any volume level. A consequence of turning the volume below Reference Level is that certain sound elements can be lost or perceived differently by the listener. THX Loudness Plus compensates for the tonal and spatial shifts that occur when the volume is reduced by intelligently adjusting ambient surround channel levels and frequency response. This enables users to experience the true impact of soundtracks regardless of the volume setting. THX Loudness Plus is automatically applied when listening in any THX listening mode. The new THX Cinema, THX Music, and THX Games modes are tailored to apply the proper THX Loudness Plus settings for each type of content.

#### ASA Description

ASA is a proprietary THX technology which processes the sound fed to 2 side and 2 back surround speakers to provide the optimal surround sound experience. When you set up your home theater system using all eight speaker outputs (Left, Center, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left and Subwoofer), be sure to go to the THX Audio Set-up screen and choose the setting that most closely corresponds to the speaker spacing, which will re-optimize the surround sound-field. ASA is used in three modes; THX Ultra2 Cinema, THX Ultra2 Music and THX Ultra2 Games.

#### THX Ultra2/Select2 Cinema

THX Ultra2/Select2 Cinema mode plays 5.1 movies using all 8 speakers giving you the best possible movie watching experience. In this mode, ASA processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.

DTS-ES (Matrix and 6.1 Discrete) and Dolby Digital Surround EX encoded soundtracks will be automatically detected in Ultra2/Select2 Cinema mode if the appropriate flag has been encoded.

Some Dolby Digital Surround EX soundtracks are missing the digital flag that allows automatic switching. If you know that the movie that you are watching is encoded in Surround EX, you can manually select the THX Surround EX playback mode, otherwise THX Ultra2/Select2 Cinema mode will apply ASA processing to provide optimum replay.

#### THX Ultra2/Select2 Music

For the playback of multi-channel music the THX Ultra2/Select2 Music mode should be selected. In this mode THX ASA processing is applied to the surround channels of all 5.1 encoded music sources such as DTS, Dolby Digital and DVD-Audio to provide a wide stable rear soundstage.

#### THX Ultra2/Select2 Games

For the playback of stereo and multi-channel game audio the THX Ultra2/Select2 Games mode should be selected. In this mode THX ASA processing is applied to the surround channels of all 5.1 and 2.0 encoded game sources such as analog, PCM, DTS and Dolby Digital. This accurately places all game audio surround information, providing a full 360 degree playback environment. THX Ultra2/Select2 Games mode is unique as it gives you a smooth transition of audio in all points of the surround field.

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### About iPod



"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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### About FLAC

### **FLAC Decoder**

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### Auto Surround, ALC and Stream Direct with different input signal formats

The following charts show what you will hear with different input signal formats, depending on the Stream Direct mode (see *Using Stream Direct* on page 59) you have selected.

### Stereo (2 channel) signal formats

Input signal format	Auto Surround / ALC / DIRECT	PURE DIRECT
Surround Back speaker(s): Connected		
Dolby Digital Surround	DI Pro Logic IIx MOVIE	D Pro Logic IIx MOVIE
DTS Surround	Neo:6 CINEMA	Neo:6 CINEMA
Other stereo sources	Stereo playback	Stereo playback
Analog sources	As above	ANALOG DIRECT (stereo)
PCM sources	As above	PCM DIRECT
DVD-A sources	As above	As above
SACD sources	As above	As above
urround Back speaker(s): Not connected		
Dolby Digital Surround	DI Pro Logic II MOVIE	DI Pro Logic II MOVIE
DTS Surround	Neo:6 CINEMA	Neo:6 CINEMA
Other stereo sources	Stereo playback	Stereo playback
Analog sources	As above	ANALOG DIRECT (stereo)
PCM sources	As above	PCM DIRECT
DVD-A sources	As above	As above
SACD sources	As above	As above

### **Multichannel signal formats**

Input signal format	Auto Surround / ALC	PURE DIRECT / DIRECT
Surround Back speaker(s): Connected		
Dolby Digital EX (6.1 channel flagged)	Dolby Digital EX	Dolby Digital EX DD Pro Logic IIx MOVIE <sup>a</sup>
DTS-ES (6.1 channel sources/6.1 channel flagged)	DTS-ES (Matrix/Discrete)	DTS-ES (Matrix/Discrete)
DTS sources (5.1 channel encoding)	Straight decoding	Straight decoding
DTS-HD sources	As above	As above
Other 5.1/6.1/7.1 channel sources	As above	As above
Surround Back speaker(s): Not connected		
DVD-A sources/Multi-ch PCM	Straight decoding	Straight decoding
SACD sources (5.1 channel encoding)	As above	As above
Other 5.1/6.1/7.1 channel sources	As above	As above

a.Unavailable with only one surround back speaker connected.

### Preset code list (SC-LX73 only)

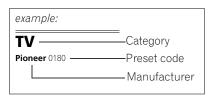
You should have no problem controlling a component if you find the manufacturer in this list, but please note that there are cases where codes for the manufacturer in the list will not work for the model that you are using. There are also cases where only certain functions may be controllable after assigning the proper preset code.

### Important 😧

• We do not guarantee the operations of all the manufacturers and devices listed. Operation may not be possible even if a preset code is entered.

If you can't find a preset code that matches the component you want to control, you can still teach the remote individual commands from another remote control (see *Programming signals from other remote controls* on page 93).

City 0027, 0039



### TV

Pioneer 0180, 0185, 0186, 0187, 0189, 0192, 0193, 0198 A.R. Systems 0040 Acme 0026 Acura 0027, 0039 ADC 0025 Admiral 0023, 0024, 0025, 0030, 0031 Adyson 0026, 0113, 0114 Agashi 0113, 0114 Agazi 0025 Aiko 0026, 0027, 0039, 0040, 0113, 0114 Aim 0040 Aiwa 0084 Akai 0027, 0028, 0034, 0037, 0039, 0040.0113,0114 Akiba 0028 0040 Akura 0025, 0028, 0039, 0040 Alaron 0113 Alba 0010, 0026, 0027, 0028, 0032, 0035, 0037, 0039, 0040, 0075, 0078, 0088.0113 Alcyon 0017 Allorgan 0114 Allstar 0034, 0040 AMOi 0109 Amplivision 0010, 0026, 0041, 0114 Amstrad 0025, 0027, 0028, 0039, 0040 Anam 0027 Anglo 0027, 0039 Anitech 0017, 0025, 0027, 0039, 0040 Ansonic 0010, 0018, 0027, 0029, 0039, 0040 Arcam 0113. 0114 Arcam Delta 0026 Aristona 0034 0037 0040 Arthur Martin 0041 ASA 0023, 0031 Asberg 0017, 0034, 0040 **Astra** 0027 Asuka 0025, 0026, 0028, 0113, 0114 Atlantic 0026, 0034, 0037, 0040, 0113 Atori 0027, 0039 Auchan 0041

Audiosonic 0010, 0026, 0027, 0028, 0034, 0037, 0040, 0114 AudioTon 0010, 0026, 0114 Ausind 0017 Autovox 0017, 0023, 0025, 0026, 0114 Awa 0113, 0114 Baird 0114 Bang & Olufsen 0023, 0115 Basic Line 0027, 0028, 0034, 0039, 0040, 0114 Bastide 0026, 0114 Baur 0037, 0040 Bazin 0114 Beko 0010, 0035, 0040, 0060 Benq 0104 Beon 0034, 0037, 0040 Best 0010 Bestar 0010, 0034, 0040 Binatone 0026, 0114 Blue Sky 0028, 0040 Blue Star 0036 Boots 0026, 0114 BPL 0036, 0040 Brandt 0033, 0038, 0042, 0044 Brinkmann 0040 Brionvega 0023, 0034, 0037, 0040 Britannia 0026, 0113, 0114 Bruns 0023 BTC 0028 Bush 0027, 0028, 0030, 0032, 0034, 0036, 0037, 0039, 0040, 0065, 0078, 0114 Capsonic 0025 Carena 0040 Carrefour 0032 Cascade 0027, 0039, 0040 Casio 0106 Cathay 0034, 0037, 0040 **CCE** 0114 Centurion 0034, 0037, 0040 Century 0023 CGE 0010, 0017 Cimline 0027, 0039

Clarivox 0037 Clatronic 0010, 0017, 0025, 0026. 0027, 0028, 0034, 0035, 0039, 0040, 0114 CMS 0113 CMS Hightec 0114 Concorde 0027, 0039 Condor 0010, 0026, 0034, 0035, 0039, 0040, 0113 Contec 0026, 0027, 0032, 0039, 0113 Continental Edison 0033 Cosmel 0027, 0039 Crosley 0017, 0023 Crown 0010, 0017, 0027, 0034, 0035, 0037,0039,0040 CS Electronics 0026, 0028, 0113 CTC Clatronic 0029 Cybertron 0028 Daewoo 0013, 0026, 0027, 0034, 0039, 0040, 0054, 0064, 0091, 0113, 0114 Dainichi 0028 0113 Dansai 0025, 0034, 0037, 0040, 0113, 0114 Dantax 0010, 0037 Dawa 0040 Daytron 0027, 0039 De Graaf 0030 Decca 0026, 0034, 0037, 0040, 0114 Denver 0098, 0103 Desmet 0034, 0037, 0040 Diamant 0040 Diamond 0113 Dixi 0027, 0034, 0037, 0039, 0040, 0114 DTS 0027, 0039 Dual 0026, 0040, 0114 Dual-Tec 0026, 0027 Dumont 0023, 0026, 0029, 0114 Dux 0037 Dynatron 0034, 0037, 0040 Elbe 0010, 0018, 0040, 0114 Elcit 0023 Electa 0036

ELECTRO TECH 0027 Elin 0026, 0034, 0037, 0039, 0040, 0113 Elite 0028, 0034, 0040 Elman 0029 Elta 0027, 0039, 0113 Emerson 0010, 0023, 0040 Epson 0101 Erres 0034, 0037, 0040 ESC 0114 Etron 0027 Eurofeel 0114, 0025 Euroline 0037 Euroman 0010, 0025, 0026, 0034, 0040, 0113, 0114 Europhon 0026, 0029, 0034, 0040, 0113, 0114 Expert 0041 Exquisit 0040 Fenner 0027, 0039 Ferguson 0033, 0037, 0038, 0042 Fidelity 0026, 0030, 0040, 0113 Filsai 0114 Finlandia 0030 Finlux 0017, 0023, 0026, 0029, 0034, 0037, 0040, 0114 Firstline 0026, 0027, 0034, 0039, 0040. 0113.0114 Fisher 0010, 0023, 0026, 0032, 0035, 0114 Flint 0034, 0040 Formenti 0017, 0023, 0024, 0026, 0037, 0113 Formenti/Phoenix 0113 Fortress 0023. 0024 Fraba 0010.0040 Friac 0010 Frontech 0025, 0027, 0030, 0031, 0039.0114 Fuiitsu 0114 Fujitsu General 0114 Funai 0025 Galaxi 0040, 0035 Galaxis 0010, 0040 GBC 0027, 0032, 0039

#### Geant Casino 0041 GEC 0026, 0031, 0034, 0037, 0040, 0114 Geloso 0027, 0030, 0039 General Technic 0027, 0039 Genexxa 0028, 0031, 0034, 0040 Giant 0114 GoldHand 0113 Goldline 0040 Goldstar 0010, 0026, 0027, 0030, 0034, 0037, 0039, 0040, 0113, 0114 Goodmans 0025, 0027, 0032, 0034, 0037, 0039, 0040, 0107, 0114 Gorenje 0010, 0035 GPM 0028 Graetz 0031 Granada 0017, 0026, 0030, 0032, 0034, 0037, 0040, 0041, 0114 Grandin 0027, 0028, 0036, 0037 Gronic 0114 Grundig 0009, 0010, 0017, 0040, 0047 Halifax 0025, 0026, 0113, 0114 Hampton 0026, 0113, 0114 Hanseatic 0010, 0018, 0026, 0027, 0032, 0034, 0037, 0039, 0040, 0114 Hantarex 0027, 0039, 0040 Hantor 0040 Harwood 0039, 0040 HCM 0025, 0026, 0027, 0036, 0039, 0040, 0114 Hema 0039, 0114 Higashi 0113 HiLine 0040 Hinari 0027, 0028, 0032, 0034, 0037, 0039,0040 Hisawa 0028, 0036, 0041 Hitachi 0022, 0026, 0030, 0031, 0032, 0040, 0076, 0111, 0114 Hornyphon 0034, 0040 Hoshai 0028 Huanyu 0026, 0113 Hvgashi 0026, 0113, 0114 Hyper 0026, 0027, 0039, 0113, 0114 Hypson 0025, 0026, 0034, 0036, 0037, 0040, 0041, 0114 Iberia 0040 ICE 0025, 0026, 0027, 0028, 0034, 0039, 0040, 0113, 0114 ICeS 0113 Imperial 0010, 0017, 0031, 0034, 0035. 0040 Indiana 0034, 0037, 0040 Ingelen 0031 Ingersol 0027, 0039 Inno Hit 0017, 0026, 0027, 0028, 0034, 0037, 0039, 0040, 0114 Innovation 0025, 0027 Interactive 0010 Interbuy 0027, 0039 Interfunk 0010, 0023, 0031, 0034, 0037 0040 International 0113 Intervision 0010, 0025, 0026, 0029, 0040.0114 Irradio 0017, 0027, 0028, 0034, 0037, 0039, 0040 Isukai 0028, 0040 ITC 0026, 0114 ITS 0028, 0034, 0036, 0040, 0113 ITT 0027, 0031 ITV 0027, 0037, 0040 JVC 0019, 0020, 0032, 0034, 0077, 5064

Kaisui 0026, 0027, 0028, 0036, 0039, 0040, 0113, 0114 Kamp 0026, 0113 Kapsch 0031

Kawasho 0113 Kendo 0010, 0029, 0030, 0040 KIC 0114 Kingsley 0026, 0113 Kneissel 0010, 0018, 0040 Kolster 0034, 0040 Konka 0028 Korpel 0034, 0037, 0040 Korting 0010, 0023 Kosmos 0040 Koyoda 0027 KTV 0026, 0114 Kyoto 0113, 0114 Lasat 0010 Lenco 0027, 0039 Lenoir 0026, 0027, 0039 Leyco 0025, 0034, 0037, 0040 LG 0010, 0021, 0026, 0027, 0030, 0034, 0037, 0039, 0040, 0071, 0074, 0081, 0105, 0113, 0114 LG/GoldStar 0014 Liesenk 0037 Liesenkotter 0040 Life 0025, 0027 Lifetec 0025, 0027, 0039, 0040 Lloyds 0039 Loewe 0010, 0018, 0040, 0051, 0052 Loewe Opta 0023, 0034, 0037 Luma 0030, 0037, 0039, 0040 Lumatron 0030, 0034, 0037, 0040, 011 Lux May 0034 Luxor 0026, 0030, 0114 M Electronic 0026, 0027, 0031, 0033, 0034.0037 Magnadyne 0023, 0029, 0037 Magnafon 0017, 0026, 0029, 0113 Magnum 0025, 0027 Mandor 0025 Manesth 0025, 0026, 0034, 0037, 0040.0114 Marantz 0034, 0037, 0040 Marelli 0023 Mark 0034, 0037, 0039, 0040, 0113, 0114 Masuda 0114 Matsui 0026, 0027, 0030, 0032, 0034, 0037, 0039, 0040, 0114 Mediator 0034, 0037, 0040 Medion 0025, 0027, 0040 M-Electronic 0039, 0040, 0113, 0114 Melvox 0041 Memorex 0027, 0039 Memphis 0027, 0039 Mercury 0039, 0040 Metz 0023, 0184, 0185, 0186, 0187 Micromaxx 0025. 0027 Microstar 0025, 0027 Minerva 0017 Minoka 0034, 0040 Mitsubishi 0023, 0032, 0034, 0040, Mivar 0010, 0017, 0018, 0026, 0113, 0114 Motion 0017 MTC 0010, 0113 Multi System 0037 Multitech 0010, 0026, 0027, 0029, 0030, 0032, 0037, 0039, 0040, 0113, 0114 Murphy 0026, 0113 Naonis 0030 NEC 0032. 0114 Neckermann 0010, 0023, 0026, 0030, 0034, 0035, 0037, 0040, 0114 NEI 0034, 0037, 0040

Karcher 0010, 0026, 0027, 0037, 0040

Neufunk 0039, 0040 New Tech 0027, 0034, 0039, 0040, 0114 New World 0028 Nicamagic 0026, 0113 Nikkai 0025, 0026, 0028, 0034, 0037, 0039, 0040, 0113, 0114 Nobliko 0017, 0026, 0029, 0113 Nokia 0031 Nordic 0114 Nordmende 0023, 0031, 0033, 0034 Nordvision 0037 Novatronic 0040 Oceanic 0031, 0041 Okano 0010, 0035, 0040 **ONCEAS** 0026 Opera 0040 Orbit 0034, 0040 Orion 0027, 0034, 0037, 0039, 0040, **Orline** 0040 Osaki 0025, 0026, 0028, 0040, 0114 Oso 0028 Otto Versand 0024, 0026, 0032, 0034, 0036, 0037, 0040, 0114 Pael 0026. 0113 Palladium 0010, 0026, 0035, 0040. 0114 Palsonic 0114 Panama 0025, 0026, 0027, 0039, 0040, 0113.0114 Panasonic 0008, 0031, 0040, 0043, 0049, 0099, 0102, 0194, 0191, 0195, 0196, 0197, 0190 Panavision 0040 Pathe Cinema 0010, 0018, 0026, 0041, 0113 Pausa 0027, 0039 Perdio 0040, 0113 Perfekt 0040 Philco 0010, 0017, 0023, 0040 **Philharmonic** 0026, 0114 Philips 0000, 0002, 0023, 0026, 0034, 0037, 0040, 0045, 0048, 0050, 0055, 0056, 0058, 0059, 0067, 0068, 0080, 0081, 0087, 0090, 0097, 0100 Phoenix 0010, 0023, 0034, 0037, 0040, Phonola 0023, 0034, 0037, 0040, 0113 Plantron 0025, 0034, 0039, 0040 Playsonic 0114 Poppy 0027, 0039 Prandoni-Prince 0017, 0030 Precision 0026, 0114 Prima 0027, 0031, 0039 Profex 0027, 0039 Profi-Tronic 0034, 0040 Proline 0034, 0040 Prosonic 0010, 0026, 0037, 0040, 0113, 0114, 0117 Protech 0025, 0026, 0027, 0029, 0034, 0037,0114 Provision 0037, 0040 Pve 0034, 0037, 0040, 0083 Pymi 0027, 0039 Quandra Vision 0041 Quelle 0025, 0026, 0034, 0037, 0040, 0114 Ouesta 0032 Radialva 0040 Radio Shack 0040 Radiola 0034, 0037, 0040, 0114 Radiomarelli 0023, 0040 Radiotone 0010, 0034, 0039, 0040 Rank 0032 Recor 0040 Redstar 0040

**Reflex** 0040 Revox 0010, 0034, 0037, 0040, Rex 0025, 0030, 0031 RFT 0010, 0018, 0023 Rhapsody 0113 R-Line 0034, 0037, 0040 Roadstar 0025, 0027, 0028, 0039 Robotron 0023 Rowa 0113, 0114 Royal Lux 0010 RTF 0023 Saba 0023, 0031, 0033, 0038, 0042, 0044 Saisho 0025, 0026, 0027, 0039, 0114 Salora 0030, 0031 Sambers 0017, 0029 Samsung 0004, 0005, 0010, 0025, 0026, 0027, 0034, 0035, 0037, 0039, 0040, 0062, 0063, 0066, 0089, 0093, 0113.0114 Sandra 0026, 0113, 0114 Sansui 0034, 0040 Sanyo 0010, 0018, 0026, 0032, 0039, 0072, 0113, 0114 SBR 0037, 0040 SCHAUB LORENTZ 0031 Schneider 0026, 0028, 0034, 0037, 0040, 0075, 0114 SEG 0025, 0026, 0029, 0032, 0037, 0039, 0040, 0075, 0113, 0114 SEI 0040 SEI-Sinudyne 0023, 0029, 0031 Seleco 0030, 0031, 0032 Sencora 0027, 0039 Sentra 0039 Serino 0113 Sharp 0015, 0016, 0024, 0032, 0069, Siarem 0023, 0029, 0040 Sierra 0034, 0040 Siesta 0010 Silva 0113 Silver 0032 Singer 0023, 0029, 0041 Sinudyne 0023, 0029, 0037, 0040 Skantic 0031 **Solavox** 0031 Sonitron 0010, 0114 Sonoko 0025, 0026, 0027, 0034, 0037, 0039, 0040, 0114 Sonolor 0031, 0041 Sontec 0010, 0034, 0037, 0040 Sony 0001, 0003, 0027, 0032, 0046, 0053, 0057, 0070, 0073, 0082, 0086, 0096, 0110, 0112 Sound & Vision 0028, 0029 Soundwave 0034, 0037, 0040 Standard 0026, 0027, 0028, 0034, 0039, 0040, 0114 Starlight 0037 Starlite 0039, 0040 Stenway 0036 Stern 0030, 0031 Strato 0039, 0040 Stylandia 0114 Sunkai 0027 Sunstar 0039, 0040 Sunwood 0027, 0034, 0039, 0040 Superla 0026, 0113, 0114 SuperTech 0039, 0040, 0113 Supra 0027, 0039 Susumu 0028 Sutron 0027, 0039 Sydney 0026, 0113, 0114 Sysline 0037 Sytong 0113 Tandy 0024, 0026, 0028, 0031, 0114

Tashiko 0029, 0030, 0032, 0113, 0114 Tatung 0026, 0034, 0037, 0040, 0114 TCM 0025, 0027 Teac 0040, 0114 Tec 0026, 0027, 0039, 0114 TEDELEX 0114 **Teleavia** 0033 Telecor 0040, 0114 Telefunken 0033, 0034, 0040, 0042 Telegazi 0040 Telemeister 0040 Telesonic 0040 Telestar 0040 Teletech 0027, 0037, 0039, 0040 Teleton 0026, 0114 Televideon 0113 Televiso 0041

Tensai 0027, 0028, 0034, 0039, 0040, 0114 Tesmet 0034 Tevion 0025, 0027 Texet 0026, 0039, 0113, 0114 Thomson 0006, 0007, 0026, 0033 0034, 0038, 0040, 0042, 0044, 0095 Thorn 0037, 0040 Tokai 0034, 0040, 0114 Tokyo 0026, 0113 Tomashi 0036 Toshiba 0011. 0012. 0032. 0061. 0094. 0114 Towada 0031, 0114 Trakton 0114 Trans Continens 0040, 0114 Transtec 0113

Trident 0114 Triumph 0040 Vestel 0030, 0031, 0034, 0035, 0037, 0040, 0114 Vexa 0027, 0037, 0039, 0040 Victor 0032, 0034 VIDEOLOGIC 0113 Videologique 0026, 0028, 0113, 0114 Videosystem 0034, 0040 Videotechnic 0113, 0114 Viewsonic 0108 Visiola 0026, 0113 Vision 0034, 0040, 0114 Vortec 0034, 0037, 0040 Voxson 0017, 0023, 0030, 0031, 0034, 0040 Waltham 0026, 0040, 0114 Watson 0034, 0037, 0040 Watt Radio 0026, 0029, 0113 Wega 0023, 0032, 0040 Wegavox 0039 Weltblick 0034, 0037, 0040, 0114 White Westinghouse 0026, 0029, 0037, 0040, 0113 Xrypton 0040 Yamishi 0040, 0114 Yokan 0040 Yoko 0010, 0025, 0026, 0027, 0028, 0034, 0037, 0039, 0040, 0113, 0114 Yorx 0028 Zanussi 0030, 0114

### DVD

*If operations are not possible using the preset codes below, you may be able to conduct operations with the preset codes for the* **BD**, **DVR (BDR, HDR)**.

Pioneer 2246, 2215 AEG 2093 Aiwa 2054 Akai 2001 Akura 2091 Alba 2027, 2038, 2048 Amitech 2093 AMW 2094 Awa 2094 Bang & Olufsen 2096 Bellagio 2094 Best Buy 2090 Brainwave 2093 Brandt 2017, 2044 Bush 2027, 2048, 2082, 2089 Cambridge Audio 2085 CAT 2087 2088 Centrum 2088 CGV 2085, 2093 Cinetec 2094 Clatronic 2089 Coby 2095 Conia 2082 **Continental Edison 2094** Crown 2093 C-Tech 2086 CyberHome 2008, 2037 Daenyx 2094 Daewoo 2035, 2059, 2093, 2094 **Daewoo International** 2094 Dalton 2092 Dansai 2084, 2093 Daytek 2010, 2033, 2094 Dayton 2094 **DEC** 2089 Decca 2093 Denon 2066, 2068 Denver 2069, 2089, 2091, 2095 Denzel 2083 Diamond 2085, 2086 DK Digital 2034 **Dmtech** 2000 Dual 2083 DVX 2086 Easy Home 2090

Eclipse 2085 Electrohome 2093 Elin 2093 Elta 2047. 2093 Enzer 2083 Finlux 2085, 2093 Gericom 2050 **Global Solutions 2086** Global Sphere 2086 Goodmans 2027, 2070, 2089 Graetz 2083 Grundig 2053 Grunkel 2093 H&B 2089 Haaz 2085, 2086 HIMAX 2090 Hitachi 2015, 2083, 2090 Innovation 2002 JVC 2024, 2041, 2057 Kansai 2095 Kennex 2093 Kenwood 2051 KeyPlug 2093 Kiiro 2093 Kingavon 2089 Kiss 2083 Koda 2089 **KXD** 2090 Lawson 2086 Lecson 2084 Lenco 2089, 2093 LG 2016, 2020, 2040, 2043, 2065, 2076 Life 2002 Lifetec 2002 Limit 2086 Loewe 2056 LogicLab 2086 Magnavox 2089 Majestic 2095 Marantz 2062 Marguant 2093 **Matsui** 2044 Mecotek 2093 Medion 2002

MiCO 2085 Micromaxx 2002 Microstar 2002 Minoka 2093 Mizuda 2089 2090 Monyka 2083 Mustek 2006 Mx Onda 2085 Naiko 2093 Neufunk 2083 Nevir 2093 **NU-TEC 2082** Onkyo 2072 **Optim** 2084 Optimus 2004 Orava 2089 **Orbit** 2094 **Orion** 2061 P&B 2089 Pacific 2086 Panasonic 2018, 2019, 2026, 2032. 2036. 2075 Philips 2005, 2011, 2022, 2023, 2031, 2039, 2062 Pointer 2093 Portland 2093 Powerpoint 2094 Prosonic 2095 Provision 2089 Raite 2083 RedStar 2091, 2093, 2095 Reoc 2086 Roadstar 2021 2089 Ronin 2094 Rowa 2082 Rownsonic 2088 Saba 2017. 2044 Sabaki 2086 Saivod 2093 Samsung 2015, 2042, 2063, 2078, 2081 Sansui 2085, 2086, 2093 Sanyo 2045, 2071 ScanMagic 2006 Schaub Lorenz 2093

Schneider 2000 Scientific Labs 2086 Scott 2025, 2092 SEG 2021, 2083, 2086, 2094 Sharp 2002, 2046, 2079 Sigmatek 2090 Silva 2091 Singer 2085, 2086 Skymaster 2058, 2086 Skyworth 2091 Slim Art 2093 SM Electronic 2086 **Sony** 2009, 2013, 2028, 2029, 2030, 2055, 2080 Soundmaster 2086 Soundmax 2086 Spectra 2094 Standard 2086 Star Cluster 2086 Starmedia 2089 Sunkai 2093 Supervision 2086 Synn 2086 Tatung 2035, 2093 TCM 2002 Teac 2067, 2082, 2086 Tec 2091 Technika 2093 Telefunken 2088 Tensai 2093 Tevion 2002, 2086, 2092 Thomson 2003, 2017, 2060, 2064 Tokai 2083, 2091 Toshiba 2007, 2061, 2073, 2074, 2077 TRANScontinents 2094 Trio 2093 TruVision 2090 Wharfedale 2085, 2086 Xbox 2003 Xlogic 2086, 2093 XMS 2093 Yamada 2094 Yamaha 2011 Yamakawa 2083, 2094 Yukai 2006, 2052

### DVR (BDR, HDR)

If operations are not possible using the preset codes below, you may be able to conduct operations with the preset codes for the **DVD**, **BD**.

Pioneer 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245

Panasonic 2165, 2171 Sharp 2169, 2177 Sony 2170, 2173, 2174, 2175, 2178 Toshiba 2176

### BD

If operations are not possible using the preset codes below, you may be able to conduct operations with the preset codes for the DVD, DVR (BDR, HDR).

Pioneer 2247, 2248 Denon 2212, 2213, 2214 Hitachi 2209, 2210, 2211 JVC 2192, 2193, 2195, 2196, 2197, 2198

### VCR

Pioneer 1077 Adyson 1017 Aiwa 1000, 1001, 1002 Akai 1001 Akiba 1007, 1017 Akura 1001, 1007, 1017 Alba 1002, 1003, 1004, 1007, 1017, Ambassador 1004 Amstrad 1000, 1017, 1018 Anitech 1007, 1017 ASA 1005, 1006 Asuka 1000, 1005, 1006, 1007, 1017 Audiosonic 1018 Baird 1000, 1001, 1003, 1018 Bang & Olufsen 1019 Basic Line 1002, 1003, 1004, 1007, 1017.1018 Baur 1006 Bestar 1003, 1004, 1018 Black Panther Line 1003, 1018 Blaupunkt 1006 Bondstec 1004, 1017 Bush 1002, 1003, 1007, 1017, 1018 Cathay 1018 Catron 1004 CGE 1000, 1001 Cimline 1002, 1007, 1017 Clatronic 1004, 1017 Condor 1003, 1004, 1018 Crown 1003, 1004, 1007, 1017, 1018 Daewoo 1003, 1004, 1018 Dansai 1007, 1017, 1018 **Dantax** 1002 Daytron 1003, 1018 De Graaf 1006 Decca 1000, 1001, 1006 Denko 1017 Dual 1001, 1027, 1018 Dumont 1000, 1006 Elbe 1018 Elcatech 1017 Elsay 1017 Elta 1007, 1017, 1018 Emerson 1017 ESC 1003. 1018 Etzuko 1007, 1017 Ferguson 1001 Fidelity 1000, 1017 Finlandia 1006 Finlux 1000, 1001, 1006 Firstline 1002, 1005, 1007, 1017 Flint 1002 Formenti/Phoenix 1006 Frontech 1004

Kenwood 2109 LG 2188, 2189 Marantz 2204, 2205 Mitsubishi 2202, 2203

Fujitsu 1000

Galaxy 1000 GBC 1004, 1007

Funai 1000

GEC 1006

Geloso 1007

General 1004

Granada 1006

1017, 1018

Harwood 1017

HCM 1007, 1017

Hisawa 1002

Impego 1004

Imperial 1000

Innovation 1002

Interbuy 1005, 1017 Interfunk 1006

ITV 1003, 1005, 1018

JVC 1001, 1013

Kaisui 1007, 1017

Korpel 1007, 1017

**Leyco** 1007, 1017 **LG** 1000, 1005, 1016

Loewe Opta 1005, 1006

Logik 1007, 1017 Lumatron 1003, 1018

M Electronic 1000

Matsui 1002, 1005

Marantz 1006

Manesth 1007, 1017

Kyoto 1017

Lenco 1003

Lifetec 1002

Luxor 1017

Mark 1018

Intervision 1000, 1018

Irradio 1005, 1007, 1017

1018

ITT 1001

Grundig 1006,1007

General Technic 1002

GoldHand 1007, 1017

Goldstar 1000, 1015

**Onkyo** 2191 Panasonic 2179, 2180, 2181 Philips 2182 Samsung 2184

Matsushita 1000, 1006

Mediator 1006 Medion 1002 Memorex 1000, 1005 Memphis 1007, 1017 Micromaxx 1002 Microstar 1002 Migros 1000 Multitech 1000, 1004, 1006, 1007, Murphy 1000 Goodmans 1000, 1003, 1004, 1005, 1007, 1017, 1018 Graetz 1001 NEC 1001 Neckermann 1001, 1006 **NEI** 1006 Grandin 1000, 1003, 1004, 1005, 1007, Nesco 1007, 1017 Nikkai 1004, 1017, 1018 Nokia 1001, 1018 Nordmende 1001 Hanseatic 1005, 1006, 1018 Oceanic 1000, 1001 Okano 1002, 1017, 1018 Hinari 1002, 1007, 1017, 1018 **Orion** 1002 Orson 1000 Hitachi 1000, 1001, 1006, 1012 Hypson 1002, 1007, 1017, 1018 Osaki 1000, 1005, 1007, 1017 Otto Versand 1006 Palladium 1001, 1005, 1007, 1017 Panasonic 1010 Inno Hit 1003, 1004, 1006, 1007, 1017, Pathe Marconi 1001 Perdio 1000 Philco 1017 Philips 1006, 1012, 1019 Phonola 1006 Portland 1003, 1004, 1018 Prinz 1000 Profex 1007 Proline 1000 Prosonic 1002, 1018 Pye 1006 Karcher 1006 Kendo 1002, 1003, 1004, 1017 Quelle 1000, 1006 Radialva 1017 Radiola 1006 Rex 1001 RFT 1004, 1006, 1017 Roadstar 1003, 1005, 1007, 1017, 1018 Royal 1017 Saba 1001 Saisho 1002, 1007 Samsung 1008 Samurai 1004, 1017 Sansui 1001 Saville 1018 **SBR** 1006 Schaub Lorenz 1000, 1001 Schneider 1000, 1002, 1003, 1004, 1005, 1006, 1007, 1017, 1018

Sentron 1007, 1017 Sharp 1009 Shintom 1007, 1017 Shivaki 1005 Siemens 1005 Silva 1005 **Silver** 1018 Sinudyne 1006 Solavox 1004 Sonneclair 1017 Sonoko 1003, 1018 **Sontec 1005** Sony 1011 Standard 1003, 1018 Stern 1018 Sunkai 1002 Sunstar 1000 Suntronic 1000 Sunwood 1007, 1017 Symphonic 1017 Taisho 1002 Tandberg 1018 Tashiko 1000 Tatung 1000, 1001, 1006 **TCM** 1002 Teac 1018 Tec 1004, 1017, 1018 Teleavia 1001 Telefunken 1001 Teletech 1017, 1018 Tenosal 1007, 1017 Tensai 1000, 1005, 1007, 1017 **Tevion** 1002 Thomson 1001, 1015 Thorn 1001 Tokai 1005, 1007, 1017 Tonsai 1007 Toshiba 1001, 1006, 1014 Towada 1007, 1017 Towika 1007, 1017 **TVA** 1004 **Uher** 1005 **Ultravox** 1018 United Quick Star 1003, 1018 Universum 1000, 1005, 1006 Videon 1002 Weltblick 1005 Yamishi 1007, 1017 Yokan 1007, 1017 Yoko 1004, 1005, 1007, 1017

Sharp 2206, 2207, 2208

Toshiba 2190, 2164

SEG 1007, 1017, 1018

SEI-Sinudyne 1006

Sentra 1004, 1017

Seleco 100

Sony 2185, 2186, 2187, 2194

Yamaha 2199, 2200, 2201

#### Satellite Set Top Box

Pioneer 6096, 6095, 6080, 6176, 0196 @sat 6127 @Sky 6114 ABsat 6056 Acoustic Solutions 6093

ADB 6050 Akai 6090 Akura 6104 Alba 6052, 6076, 6056, 6093 Allsat 6090 Alltech 6056

Allvision 6128, 6114, 6075 Amitronica 6056 Ampere 6132, 6137 Amstrad 6132, 6137, 6112, 6056, 6078, 6119 Anglo 6056

**Ankaro** 6056 Ansonic 6121 **Anttron** 6076 Apollo 6052 Apro 6108 Arcon 6068

Arcus 6069 Armstrong 6090 Arnion 612 ASA 6106 Asat 6090 ASCI 6089, 6114 **ASLF** 6056 AssCom 6096 Astra 6131, 6056 Astratec 6144, 6145 Astrell 6078 Astro 6053, 6112, 6131, 6076, 6122, 6091, 6098, 6119 **Atlanta** 6121 Atsat 6127 AtSky 6114 Audioline 6108 Audioton 6076 Austar 6050 Avalon 6137 Axil 6120, 6062, 6121 Axis 6143 Axitronic 6104 B.net 6108 B@ytronic 6106, 6075 **BELL** 6191 Balmet 6062 Beko 6052 **Belson** 6121 Big Sat 6062 Black Diamond 6093 Blaupunkt 6053 Blue Sky 6056 Boca 6132, 6056, 6128, 6061, 6133, 6113, 6063, 6064 Bodner & Mann 6070 Boshmann 6120 6123 **Boston** 6103 Brainwave 6107, 6108 British Sky Broadcasting 6086 Broco 6056 BskyB 6086 BT 607 Bubu Sat 6056 Bush 6130, 6093, 6140, 6104, 6108, 6144, 6077, 6066, 6141, 6058 Cambridge 6112 Canal Digital 6096 Canal Satellite 6096, 6095, 6154, 6153 Canal+ 6096, 6153 CGV 6120, 6059 Cherokee 6070 Chess 6089, 6056, 6114, 6104 CityCom 6105, 6131, 6128, 6055, 68.6117 Clark 6076 Classic 6108 Clatronic 6120 Clayton 6104 Clemens Kamphus 6137 Cobra 6137 Colombia 6132 Columbia 6132 Comag 6132, 6128, 6061, 6075, 6120, 6133, 6113, 6065, 6135, 6063, 6064 Comsat 6120 Condor 6131, 6129 Connexions 6137 Conrad 6132, 6112, 6083, 6131 Coship 6062, 6108 Crown 6093 Cryptovision 6052 CS 6123 Cyfrowy Polsat 6096 Cyrus 6090 **D-box** 6151

Daewoo 6143, 6056, 6071, 6144, 6058 Dantax 6104 Deltasat 6068 Denver 6121 Digatron 6107 Digenius 6105, 6102 Digiality 6131, 6114 Digifusion 6144, 6145 Digihome 6093, 6141, 6094 DigiLogic 6093 DigiQuest 6127, 6062, 6123 DigiSat 6128 Digisky 6062 Digital 6063 Digital Vision 6145 DigitalBox 6098, 6123 Dijam 6071 DirecTV 6139 Discovery 6070 Distratel 6078, 6126 DMT 6068 DNT 6090, 6137 **Doro** 6108 Dual 6128 Durabrand 6093, 6094 DX Antenna 6171 E Aichi 6172 Echolink 6061 Echostar 6096, 6057, 6115, 6109, 6137, 6052, 6056, 6177 Edision 6123 Einhell 6132, 6112, 6056 Elap 6056, 6120, 6059 Elbe 6121 Elless 6106 Elsat 6056 Elta 6090 eMTech 6072 Energy Sistem 6123 Engel 6056, 6103 EP Sat 6052 Eurieult 6078 Eurocrypt 6052 EuroLine 6103 Europa 6112, 6131 Europhon 6132, 6105, 6131 Eurosat 6065 Eurosky 6132, 6089, 6105, 6112, 6131. 6106 Eurostar 6131, 6055 Eutelsat 6056 Eutra 6106 Evesham 6094 Exator 6076 Fagor 6079 Fenner 6056 Ferguson 6052, 6140, 6144, 6145 Fidelity 6112 Finlandia 6052 Finlux 6052, 6083, 6104 FinnSat 6106 Flair Mate 6056 Fly Com 6062 FMD 6089, 6120, 6062 Freecom 6112 FTEmaximal 6056, 6065 Fuba 6053, 6105, 6137, 6083, 6102, 6072 Fujitsu 6164, 6165, 6166 Galaxis 6096, 6143 Gardiner 6055 Garnet 6068 **GbSAT** 6072 Gecco 6122, 6075 General Satellite 6117 Globo 6106, 6103, 6114, 6075, 6133

GOD Digital 6090 Gold Box 6096, 6095 Gold Vision 6123 Golden Interstar 6126 Goodmans 6052, 6130, 6093, 6140, 6147, 6066, 6094, 6077 Gran Prix 6106 Granada 6052 Grandin 6104 Grocos 6115, 6062 Grundig 6108, 6096, 6053, 6093, 6140, 6094, 6077, 6066 Haensel & Gretel 6132 Haier 6121 Hama 6059 Hanseatic 6091, 6098 Hauppauge 6107, 6108 HB 6072 Heliocom 6131 Helium 6131 Hiro 6065 Hirschmann 6143, 6053, 6105, 6137, 6112, 6083, 6131, 6106, 6128, 6075, 6065 Hitachi 6052, 6094, 6093, 6163 HNE 6132 Hornet 6127 Houston 6137 Humax 6117, 6118, 6144 Huth 6132, 6131, 6068, 6069 Hyundai 6068 ID Digital 6117 ILLUSION sat 6123 Imperial 6098, 6092, 6099, 6114, 6108 Ingelen 6089, 6137 Inno Hit 6104 International 6132 Interstar 6072 Intervision 6131 Inves 6144 iotronic 6120 ITT Nokia 6083, 6052 Jaeger 6114 JERROLD 6159, 6180, 6181, 6182, 6183, 6184, 6185, 6186, 6187, 6188 K-SAT 6056 Kamm 6056 Kaon 6127 KaTelco 6143 Kathrein 6053, 6090, 6089, 6055, 6138, 6076, 6148, 6059, 6056 Kendo 6128 Kenwood 6096 Key West 6132 **Kiton** 6089 KR 6076 Kreiling 6089, 6104, 6070 Kreiselmeyer 6053 Kyostar 6076 L&S Electronic 6132, 6114 Labgear 6071 LaSAT 6053, 6132, 6105, 6131, 6106 Leiko 6104 Lemon 6114 Lenco 6131, 6056 Lenson 6112 LG 6068 Lifesat 6132, 6105, 6056 Listo 6104 Lodos 6093 Logik 6093 Logix 6068 Lorenzen 6132, 6105, 6131, 6102, 6107, 6133, 6113 Luxor 6112, 6083, 6141 M Electronic 6055

Manata 6132, 6056 Manhattan 6052, 6127 Marantz 6090 Maspro 6053, 6056 Matsui 6053, 6093, 6147, 6104, 6144, 6145 Max 6131 Maximum 6068, 6114 Mediabox 6096, 6095 Mediacom 6074 MediaSat 6096, 6095, 6112, 6154. Medion 6132, 6105, 6056, 6106, 6068. 6128, 6114, 6075, 6104 Medison 6056 Mega 6090 MegaSat 6065 Metronic 6132, 6076, 6056, 6055, 6078, 6126, 6114, 6120 Metz 6053 Micro 6112, 6131, 6076, 6056, 6107 Micro Elektronic 6056 Micro Technology 6056 Micromaxx 6105 Microstar 6105, 6068, 6102 Microtec 6056 Mitsubishi 6052 Morgan's 6090, 6132, 6056, 6128, Multibroadcast 6050 Multichoice 6050 Myryad 6090 Mysat 6056 MySky 6087, 6088 NEC 6162 NEOTION 6114 Netsat 6139 Neuhaus 6112, 6131, 6056 Neuling 6132, 6128, 6133, 6064 Neusat 6056 Neveling 6102 **Newton** 6137 NextWave 6069 Nichimen 6130 Nikko 6056, 6090 Noda Electronic 6078 Nokia 6052, 6083, 6096, 6082 Nordmende 6052 Octagon 6076 OctaITV 6107 Onn 6093, 6094 Opentel 6128, 6075 Optex 6089, 6056, 6126, 6120, 6079. 6104 Orbis 6128, 6114, 6075 Orbitech 6089, 6112, 6091, 6098, 6092 6099 P/Sat 6128 Pace 6149, 6096, 6090, 6088, 6087. 6057, 6052 Pacific 6093 Packard Bell 6143 Palcom 6105, 6102, 6115 Palladium 6137, 6112 Palsat 6112 Panasonic 6054, 6052, 6167, 6168. 6169 Panda 6053, 6052, 6131 Pansat 6067 Pass 6059 Patriot 6132 peeKTon 6062, 6121 Philips 6096, 6053, 6090, 6151, 6095, 6139, 6153, 6144, 6108, 6055, 6076, 6052 Phoenix 6121 Phonotrend 6109

Pilotime 6154 Pino 6114 Pixx 6067 Planet 6137 PMB 6056, 6079 Polytron 6137 Portland 6071 Preisner 6132, 6137, 6119, 6061 Premier 6095 Primacom 6143 Primestar 6178 Pro Basic 6096, 6060 **Proline** 6093 **Promax** 6052 Proscan 6110 Ouelle 6105, 6131 Radiola 6090 Radix 6137. 6119 Rainbow 6076 RCA 6110, 6173, 6175, 6179 **Rebox** 6072 Regal 6103 RFT 6090 Roadstar 6096, 6056 Rollmaster 6120 Rover 6056 Rownsonic 6059 SA 6155, 6157, 6189, 6190 SAB 6103, 6127 Saba 6060, 6131, 6106, 6078 Sabre 6052 Sagem 6151, 6134, 6153 Saivod 6121 Salora 6128 Samsung 6096, 6074, 6073, 6149, 6129 Sanvo 6104 SAT 6112 Sat Control 6127 Sat Partner 6112, 6076 Sat Team 6056 SAT+ 6115 Satcom 6131 Satec 6056 Satelco 6128 Satplus 6098 SatyCon 6123 Schaecke 6076

Schaub Lorenz 6072, 6121 Schneider 6074, 6103 Schwaiger 6143, 6132, 6138, 6131, 6106, 6078, 6068, 6114, 6075, 6064, 6062, 6133, 6123, 6108, 6063 Scientific Atlanta 6085 SCS 6105, 6106 Sedea Electronique 6132, 6089, 6074, 6126, 6104 Seemann 6137 SEG 6089, 6068, 6103, 6093, 6104 SEI 6170 Septimo 6078 Serd 6075 Servimat 6079 ServiSat 6056, 6103 Shark 6123 Sharp 6141, 6094 Siemens 6053, 6137, 6114 Sigmatek 6121 Silva 6105 SilverCrest 6135, 6063 Skantin 6056 SKR 6056 SKT 6132 SKY 6139, 6086, 6088, 6087 SKY Italia 6096, 6088 Sky XL 6103, 6075 Skymaster 6109, 6056, 6068, 6114, 6115, 6060, 6059, 6079 Skymax 6090, 6120 **Skypex** 6106 Skyplus 6075, 6106, 6128, 6114 SkySat 6089, 6112, 6131, 6056 Skyvision 6114 SL 6132, 6105, 6106, 6107, 6133, 6108 SM Electronic 6109, 6056, 6115 Smart 6132, 6137, 6056, 6119, 6128, 6122, 6123, 6120, 6133 SmartVision 6062 Sony 6111, 6096, 6095, 6052, 6174 SR 6132 Star Sat 6072 Starland 6056 Starlite 6090 Stream 6088 Stream System 6127 Strong 6096, 6121, 6132, 6076, 6056, 6104, 6093, 6115

Sumin 6075 Sunny 6127 Sunsat 6056 Sunstar 6050, 6132 SuperMax 6069 Supratech 6120 Systec 6114 Tantec 6052 Targa 6067 Tatung 6052 TBoston 6103, 6121 **Tecatel** 6109 Technical 6104 Technika 6093, 6108, 6094 TechniSat 6089, 6137, 6052, 6112, 6091, 6098, 6092, 6099 Technomate 6126 Technosat 6069 Technosonic 6130, 6108 Technotrend 6108 Technowelt 6132, 6131 Techwood 6089, 6093, 6104, 6094 **Telasat** 6131 TELE System 6137, 6079, 6103, 6115 **Teleciel** 6076 Teleka 6137, 6112, 6131, 6076 Telesat 6131 Telestar 6089, 6112, 6091, 6098, 6092, 6099, 6103, 6114, 6108, 6104 Teletech 6089 Televes 6132, 6052, 6112, 6072, 6127, 6114, 6133 Telewire 6128 Tempo 6069 Tevion 6130, 6056, 6115, 6108, 6060 Thomson 6110, 6096, 6086, 6088, 6095, 6056, 6131, 6052, 6141, 6153, 6140 Thorn 6052 Tiny 6108 Tioko 6132 Titan 6065, 6060 TNT SAT 6134 Tokai 6090 Tonna 6052, 6112, 6056, 6079 Topfield 6074 Toshiba 6052, 6093, 6161 Trevi 6103

**Triasat** 6112 Triax 6096, 6090, 6132, 6135, 6065, 6129, 6104, 6079, 6137, 6089, 6133, 6120, 6071, 6140, 6103, 6119, 6056, 6112 Turnsat 6056 Twinner 6056, 6079 Unisat 6090, 6132 **United** 6103 Univers 6065 Universum 6053, 6089, 6105, 6131, 6106, 6091, 6103 Van Hunen 6102 Variosat 6053 **VFA** 6121 Ventana 6090 Vestel 6089, 6103, 6093, 6094 VH Sat 6105 Viasat 6149 Viola Digital 6108 Vision 6104, 6065 Visionic 6126 Visiosat 6089, 6130, 6056, 6120, 6062, 6067 Vitecom 6120 Volcasat 6121 VTech 6055 Wetekom 6112 Wewa 6052 Wharfedale 6093, 6141, 6094 Wisi 6053, 6132, 6105, 6137, 6052, 6112, 6131, 6106, 6128, 6075 Worldsat 6089, 6072, 6103, 6070 WorthIt! 6066 Woxter 6121 Xoro 6067 Xsat 6057, 6056, 6072 Xtreme 6127 Yakumo 6120 ZapMaster 6106 Zehnder 6089, 6138, 6055, 6068, 6128, 6103, 6114, 6075, 6120, 6123, 6125 ZENITH 6156, 6158, 6160 Zeta Technology 6090 Zodiac 6137, 6076

### Satellite Set Top Box (SAT/PVR Combination)

@sat 6127 Allvision 6075 Atsat 6127 B@ytronic 6106, 6075 Boca 6063 BskyB 6086 Bush 6130 Canal Satellite 6154 Comag 6075, 6063 Daewoo 6058 Digifusion 6145 Digihome 6094 DigiQuest 6127 Digital 6063 **DMT** 6068 Edision 6123 eMTech 6072 **GbSAT** 6072 Gecco 6075 **Globo** 6075 Goodmans 6130, 6094 Hirschmann 6106, 6075

Huth 6068 Hyundai 6068 Kathrein 6148 LaSAT 6106 LG 6068 Luxor 6141 Maximum 6114 Mediacom 6074 MediaSat 6153 Medion 6106, 6075 Microstar 6068 Morgan's 6075 MySky 6087, 6088 **NEOTION 6114** Nichimen 6130 Nokia 6082 Opentel 6075 Orbis 6075 Pace 6087, 6149 Panasonic 6054 Philips 6139, 6153

Humax 6117, 6118

Pilotime 6154 Pixx 6067 Proscan 6110 Rebox 6072 Sagem 6134 Samsung 6149, 6074, 6073 Sat Control 6127 Schneider 6074 Schwaiger 6106, 6068, 6075, 6063 Sedea Electronique 6074 Serd 6075 Sharp 6094 SilverCrest 6063 SKY 6086, 6088, 6087 SKY Italia 6088 Sky XL 6075 Skymaster 6068 **Skypex** 6106 Skyplus 6075, 6106, 6114 Stream System 6127 Sumin 6075 Sunny 6127

Targa 6067 TechniSat 6092, 6099 Technosonic 6130 Telestar 6092, 6099 Thomson 6086, 6141 TNT SAT 6134 Topfield 6074 Viasat 6149 Visiosat 6149 Visiosat 6149 Visiosat 6130, 6067 Wisi 6106 Xoro 6067 Xtreme 6127 Zehnder 6068, 6075, 6125

### **Cable Set Top Box**

Pioneer 0197, 6081 ABC 6142 ADB 6051 Austar 6152 Bell & Howell 6142 Birmingham Cable Communications 6152 Cablecom 6146 Fosgate 6152 France Telecom 6136 Freebox 6150 General Instrument 6152, 6142 Humax 6100, 6124 Jerrold 6152, 6142 Kabel Deutschland 6100 Macab 6136 Madritel 6051 Magnavox 6142 Memorex 6116 Motorola 6152 Nokia 6084 Noos 6136 NTL 6152, 6097

Optus 6152 Orange 6136 Pace 6097 Panasonic 6116 Philips 6136, 6146 Pulsar 6116 Runco 6116 Sagem 6136 Salora 6116 Samsung 6097, 6116 Scientific Atlanta 6101 StarHub 6152 Supercable 6152 Telewest 6101 Thomson 6146, 6100 Toshiba 6116 UPC 6146 US Electronics 6152 Virgin Media 6097, 6101 Visiopass 6136 Zenith 6116 Ziggo 6084

### Cable Set Top Box (Cable/PVR Combination)

Freebox 6150 Humax 6124, 6100 Nokia 6084 Scientific Atlanta 6101 **Telewest** 6101 **Thomson** 6146 **UPC** 6146 **Virgin Media** 6101

### CD

Pioneer 5065, 5066 AKAI 5043 Asuka 5045 Denon 5019 Fisher 5048 Goldstar 5040 Hitachi 5042 Kenwood 5020, 5021, 5031 Luxman 5049 Marantz 5033 Onkyo 5017, 5018, 5030, 5050 Panasonic 5036 Philips 5022, 5032, 5044 RCA 5013, 5029 Roadstar 5052 Sharp 5051 Sony 5012, 5023, 5026, 5027, 5028, 5039 TEAC 5015, 5016, 5034, 5035, 5037 Technics 5041 Victor 5014 Yamaha 5024, 5025, 5038, 5046, 5047

### CD-R

**Pioneer** 5067 **Philips** 5054 **Yamaha** 5055

### Laser Disc Player

Pioneer 5062, 5063

### **Cassete Deck**

Pioneer 5070

### **Digital Tape**

Pioneer 5069

MD

Pioneer 5068

### Specifications

• These specifications are applicable when the power supply is 230 V.

### **Audio Section**

Multi channel simultaneous power output (1 kHz, 1 %, 8 $\Omega$ ) 7 ch total
Front
Center
Surround
Surround back (Front height/wide)
Rated power output (20 Hz to 20 kHz, 8 $\Omega$ , 0.08 %)
Front 140 W + 140 W
Center 140 W
Surround 140 W + 140 W
Surround back (Front height/wide) 140 W + 140 W Total harmonic distortion0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)
Signal-to-Noise Ratio (IHF, short circuited, A network) LINE103 dB
Frequency Response
(Pure Direct Mode)
Input (Sensitivity/Impedance)
PHONO MM
Output (Level/Impedance)
$REC \qquad \qquad A00 \ mV/2.2 \ k\Omega$
Tuner Section
Frequency Range (FM)
Frequency Range (AM). 531 kHz to 1602 kHz

Antenna Input (FM)	75 $\Omega$ unbalanced
Frequency Range (AM)	531 kHz to 1602 kHz
Antenna (AM) Loop	antenna (balanced)

### Video Section

Signal level
Composite Video 1 Vp-p (75 $\Omega$ )
Component Video Y: 1.0 Vp-p (75 $\Omega$ ),
PB, PR: 0.7 Vp-p (75 Ω)
Corresponding maximum resolution
Component Video

### **Digital In/Out Section**

HDMI terminal
HDMI output type
USB terminal USB2.0 Full Speed (Type A)
iPod terminal USB, and Video (Composite)
ADAPTER PORT terminal

### **Integrated Control Section**

Control (SR) terminalØ 3.5 Mini-jack (MONO) Control (IR) terminalØ 3.5 Mini-jack (MONO) IR signalØ 3.5 Mini-jack (MONO) 12 V Trigger terminalØ 3.5 Mini-jack (MONO) 12 V Trigger output typeØ 3.5 Mini-jack (MONO) 12 V Trigger output typeØ 3.5 Mini-jack (MONO) RS-232C cable type9-pin, cross type, female-female EXTENSION terminal ( <i>SC-LX73 only</i> )5 V, 150 mA CU-RF100 terminal ( <i>SC-LX83 only</i> )
Network Section LAN terminal
Bluetooth ADAPTER (AS-BT100)
Power DC 5 V Version Bluetooth Specification Ver. 2.0 + EDR OutputBluetooth Specification Class 2 Estimated line-of-sight transmission distance*
About 10 m Radio frequency band 2.4 GHz Modulation system
*The line-of-sight transmission distance is an estimate. Actual transmission distances supported may differ depending on surrounding conditions.
Remote control unit (SC-LX83 only)
Power DC 3 V Estimated line-of-sight transmission distance*
About 10 m Radio frequency band 2.4 GHz Modulation system
Direct Sequence Spread Spectrum (DSSS) Dimensions51 mm (W) x 255 mm (H) x 34 mm (D) Weight190 g
RF adapter (SC-LX83 only)
Power DC 5 V Estimated line-of-sight transmission distance* About 10 m Radio frequency band 2.4 GHz Modulation system
Dimensions 49 mm (W) x 21 mm (H) x 64.5 mm (D) Weight

\* The line-of-sight transmission distance is an estimate. Actual transmission distances supported may differ depending on surrounding conditions.

### Miscellaneous

Power requirementsAC 220 V to 230 V, 50 Hz/60 Hz
Power consumption
In standby 0.2 W (HDMI Setup – Control : OFF)
0.3 W (HDMI Setup – Control : ON)
Dimensions 420 mm (W) x 200 mm (H) x 460 mm (D)
Weight (without package)18.5 kg

### **Number of Furnished Parts**

Incase of SC-LX83:
MCACC Setup microphone (APM7009)
Omni-directional
remote control (CU-RF100) (AXD7580)1
RF adapter (AXX7272)1
IR blaster cable (ADF7007)2
AA/LR6 dry cell batteries4
iPod cable
Bluetooth ADAPTER (AS-BT100)1
AM loop antenna1
FM wire antenna1
Power cord1
Warranty card1
Quick start guide
These operating instructions
Incase of SC-LX73:

### 🖉 Note

 Specifications and the design are subject to possible modifications without notice, due to improvements.

### Cleaning the unit

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surface is dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzene, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

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### **Radio wave caution**

*Bluetooth ADAPTER* (AS-BT100) uses a 2.4 GHz radio wave frequency, which is a band used by other wireless systems (see list below). To prevent noise or interrupted communication, do not use this unit nearby such devices, or make sure these devices are switched off during use.

- Cordless phones
- Cordless facsimiles
- Microwave ovens
- Wireless LAN devices (IEEE802.11b/g)
- Wireless AV equipment
- · Wireless controllers for game systems
- Microwave-based health aids
- Some baby monitors

Other, less common, equipment that may operate on the same frequency:

- Anti-theft systems
- Amateur radio stations (HAM)
- Warehouse logistic management systems
- Discrimination systems for train or emergency vehicles

### 🖉 Note

- In the event noise appears in your television image, there is the possibility that a *Bluetooth*<sup>®</sup> wireless technology enabled device or AS-BT100 (including products supported by AS-BT100) are causing signal interference with the antenna input connector of your television, video, BS tuner, CS tuner, etc. In this event, increase the distance between the antenna input connector and the *Bluetooth* wireless technology enabled device or AS-BT100 (including products supported by AS-BT100).
- If there is something obstructing the path between AS-BT100 (including devices supported by AS-BT100) and the device equipped with *Bluetooth* wireless technology (such as a metal door, concrete wall, or insulation containing tinfoil), you may need to change the location of your system to prevent signal noise and interruptions.

### Scope of operation

Use of AS-BT100 is limited to home use. (Transmission distances may be reduced depending on communication environment).

In the following locations, poor condition or inability to receive radio waves may cause the audio to be interrupted or stopped:

- In reinforced concrete buildings or steelframed or iron-framed buildings.
- Near large metallic furniture.
- In a crowd of people or near a building or obstacle.
- In a location exposed to the magnetic field, static electricity or radio wave interference from radio communication equipment using the same frequency band (2.4 GHz) as AS-BT100, such as a 2.4 GHz wireless LAN device (IEEE802.11b/g) or microwave oven.
- If you live in a heavily populated residential area (apartment, townhouse, etc.) and if your neighbor's microwave is placed near your system, you may experience radio wave interference. If this occurs, move your unit to a different place. When the microwave is not in use, there will be no radio wave interference.

### **Radio wave reflections**

The radio waves received by AS-BT100 include the radio wave coming directly from the device equipped with *Bluetooth* wireless technology (direct wave) and waves coming from various directions due to reflections by walls, furniture and building (reflected waves). The reflected waves (due to obstacles and reflecting objects) further produce a variety of reflected waves as well as variation in reception condition depending on locations. If the audio cannot be received properly due to this phenomenon, try moving the location of the device equipped with *Bluetooth* wireless technology a little. Also note that audio may be interrupted due to the reflected waves when a person crosses or approaches the space between AS-BT100 and the device equipped with *Bluetooth* wireless technology.

# Precautions regarding connections to products supported by AS-BT100

- Complete connections for all devices supported by AS-BT100, including all audio cords and power cables before connecting them to AS-BT100.
- After completing connections to AS-BT100, check the audio and power cables to confirm that they not twisted together.
- When disconnecting AS-BT100, confirm that you have sufficient working space in the surrounding area.
- When changing connections of audio or other cables for products supported by this unit, confirm that you have sufficient working space in the surrounding area.

### 

- Always connect AS-BT100 to the ADAPTER PORT of the product supported by AS-BT100. If connections are made to a connector other than the ADAPTER PORT of the supported product, malfunctions or damage may result to this unit or the supported product.
- Please note that Pioneer is not responsible for damages that result from connecting AS-BT100 to a connector other than the ADAPTER PORT of a supported product.

### Declaration of Conformity with regard to the R&TTE Directive 1999/5/EC

Manufacturer: **Pioneer Corporation** 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan EU Representative's: **Pioneer Europe NV** Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium http://www.pioneer.eu

# CE

### English:

Hereby, Pioneer, declares that this SC-LX83/SC-LX73 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

### Suomi:

Pioneer vakuuttaa täten että SC-LX83/SC-LX73 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

#### Nederlands:

Hierbij verklaart Pioneer dat het toestel SC-LX83/SC-LX73 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG

### Français:

Par la présente Pioneer déclare que l'appareil SC-LX83/SC-LX73 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE

### Svenska:

Härmed intygar Pioneer att denna SC-LX83/SC-LX73 står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

### Dansk:

Undertegnede Pioneer erklærer herved, at følgende udstyr SC-LX83/SC-LX73 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF

### Deutsch:

Hiermit erklärt Pioneer, dass sich dieses SC-LX83/SC-LX73 in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi)

### Ελληνικά:

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Pioneer ΔΗΛΩΝΕΙ ΟΤΙ SC-LX83/SC-LX73 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ

### Italiano:

Con la presente Pioneer dichiara che questo SC-LX83/SC-LX73 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

### Español:

Por medio de la presente Pioneer declara que el SC-LX83/SC-LX73 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE Pioneer declara que este SC-LX83/SC-LX73 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

### Čeština:

Pioneer tímto prohlašuje, že tento SC-LX83/SC-LX73 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES

### Eesti:

Käesolevaga kinnitab Pioneer seadme SC-LX83/SC-LX73 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

#### Magyar:

Alulírott, Pioneer nyilatkozom, hogy a SC-LX83/SC-LX73 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

### Latviešu valoda:

Ar šo Pioneer deklarē, ka SC-LX83/SC-LX73 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

#### Lietuvių kalba:

Šiuo Pioneer deklaruoja, kad šis SC-LX83/SC-LX73 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

#### Malti:

Hawnhekk, Pioneer jiddikjara li dan SC-LX83/SC-LX73 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC

### Slovenčina:

Pioneer týmto vyhlasuje, že SC-LX83/SC-LX73 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

#### Slovenščina:

Pioneer izjavlja, da je ta SC-LX83/SC-LX73 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

#### Română:

Prin prezenta, Pioneer declara ca acest SC-LX83/SC-LX73 este in conformitate cu cerintele esentiale si alte prevederi ale Directivei 1999/5/EU.

#### български:

С настоящето, Pioneer декларира, че този SC-LX83/SC-LX73 отговаря на основните изисквания и други съответни постановления на Директива 1999/5/EC.

### Polski:

Niniejszym Pioneer oświadcza, że SC-LX83/SC-LX73 jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC

### Norsk:

Pioneer erklærer herved at utstyret SC-LX83/SC-LX73 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

### Íslenska:

Hér með lýsir Pioneer yfir því að SC-LX83/SC-LX73 er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC

R-TTE-24L\_A1\_En

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