

# TX-NR717 7.2-Channel Network A/V Receiver

BLACK SILVER



Microphone for Audyssey



## High Fidelity Entertainment for Your Whole Home

With the power to fill large rooms with THX®-certified sound, this cutting-edge receiver is ready to integrate and distribute entertainment throughout your home. More than a home cinema processor, the TX-NR717 allows you to access music on PC, stream from MP3tunes, explore online radio, or connect your iPod/iPhone to one of two USB ports. You can distribute any of these various stereo sources to other rooms for house-wide entertainment. With a total of 10 HDMI® connections, this receiver converges HD content from all your components—even your smart phone media via a frontside MHL/HDMI—and provides easy input selection with InstaPrevue™ technology. HDMI also enables intuitive GUI with overlaid Quick Set-Up menu. Visually managing settings and playback—even across multiple zones—is easy with the Onkyo Remote App for iPhone and Android phones. Video upscaling to 4K, Audyssey DSX® seven-channel sound expansion, and Audyssey 2EQ® room correction are all included. Sound quality is quite simply the best in class, with powerful WRAT amplifier, three-stage inverted Darlington circuitry, and discrete output stage components delivering an otherworldly entertainment experience.

### ADVANCED FEATURES

- THX® Select2 Plus™ Certified
- HDMI® Video Upscaling to 4K with Qdeo™ Technology by Marvell
- MHL (Mobile High-Definition Link) for Smart Phone Content on HDTV
- Picture-in-Picture Input Source Preview with InstaPrevue™ Technology
- Audyssey DSX® and Dolby® Pro Logic® IIz for Expanded Surround Channels
- Internet Radio and Cloud Music Streaming Service Connectivity (Last.fm, MP3tunes, Spotify, AUPEO!, Simfy, vTuner)<sup>\*1</sup>
- Supports Onkyo Remote Apps for iPod touch/iPhone<sup>\*2</sup> and Android Phone<sup>\*3</sup>
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology
- Powered Zone 2/3 and Zone 2/3 Line-Outs for Distributed Audio Playback in Multiple Rooms
- 7.2 Multichannel Pre-Outs
- Bi-Amping Capability

\*1 Availability of services depends on region. Some services may require a firmware update. \*2 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. \*3 Requires Android OS 2.1 or later.

### AMPLIFIER FEATURES

- 170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
- WRAT (Wide Range Amplifier Technology)
- Three-Stage Inverted Darlington Circuitry

- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Discrete Output Stage Circuitry
- Optimum Gain Volume Circuitry

### PROCESSING FEATURES

- HDMI Support for 3D, Audio Return Channel, DeepColor™\*, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Advanced Music Optimizer for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- Direct Mode and Pure Audio Mode

\*Frontside HDMI does not support DeepColor.

### CONNECTION FEATURES

- 8 HDMI Inputs (1 Front/7 Rear) and 2 Outputs
- 2 USB Ports (1 Front/1 Rear)
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Compatible with Optional UWF-I Wireless LAN Adapter via USB
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, Apple Lossless, LPCM)

- 2 Component Video Inputs and 1 Output
- 5 Composite Video Inputs and 1 Output
- 5 Digital Audio Inputs (2 Optical and 3 Coaxial)
- 6 Analog Audio Inputs and 1 Phono Input
- Analog RGB Video Input (D-sub, 15 pin) for PC
- IR Input and 12V Trigger Out (Zone 2)
- Color-Coded, Banana Plug-Compatible Speaker Posts

### OTHER FEATURES

- Audyssey 2EQ® for Room Acoustic Correction
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid On-Screen Display (OSD) with Quick Set-Up and Home Menu
- Hybrid Standby Function to Reduce Power Consumption
- Independent Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 800 ms at 48 kHz)
- Tone Control (Bass/Treble) for Front and Zone 2 Channels
- Firmware Updates via Ethernet and USB
- Light Dimming (Display: Normal/Dim/Dimmer; Volume Knob LED: On/Off)\*
- RDS (PS/RT/PTY/TP) (European Model only)
- 40 FM/AM Random Presets
- Preprogrammed RI (Remote Interactive) Remote Control

\*Note: Volume knob LED is always off when display is dimmed.



# TX-NR717 7.2-Channel Network A/V Receiver

## Wireless Cloud Streaming, Internet Radio, and PC-Based Music

Connecting to your home network using a standard LAN cable, the TX-NR717 makes streaming audio and internet radio easy. You can also play formats including MP3, AAC, Apple Lossless, FLAC, and WMA Lossless stored on your PC through your Onkyo home cinema system. The receiver offers easy access to internet radio channels from Last.fm and vTuner, plus cloud-based music streaming from AUPEOI, Simfy, and MP3tunes\*. Wireless networking is enabled with an optional UWF-1 Wireless LAN Adapter.

\*Availability of services depends on region. Some services may require a firmware update.

## Mobile High-Definition Link for Smart Phone Movies and Photos on HDTV

The TX-NR717's front-panel HDMI port is designed for the connection of compatible smart phones and other portable electronic devices using the new MHL standard. MHL allows you to display full 1080p video and still images on your HDTV with up to 7.1 channels of surround sound. Use the receiver's remote to control playback from your phone as it receives a handy recharge.

## InstaPrevue™ Technology Makes Switching Sources Easy

The TX-NR717 incorporates InstaPrevue visual port management technology, making input source selection easier. InstaPrevue technology provides a live video thumbnail of the available content on your devices connected via HDMI. You no longer have to remember that your gaming console is connected to Port 3, or your Blu-ray player to Port 1, for example—you can see what's playing and choose accordingly.

## THX® Select2 Plus™ Certified

THX Select2 Plus certification is specified for rooms where the screen-to-seat viewing distance is three to four meters and the room volume is around 56 cubic meters. To achieve THX Select2 Plus certification, the TX-NR717 had to meet the world's most demanding standards for home cinema audio quality and performance, and play at reference volume levels with minimal distortion.

## 4K Video Upscaling and Processing via Qdeo™ Technology

The TX-NR717 offers full 4K (4096 × 2160) upscaling of standard video sources such as 480i/p, 720p, and 1080i/p. Interlaced-to-progressive conversion and scaling are performed by Qdeo video processing technology from Marvell. Qdeo uses algorithms to erase video noise and artifacts such as jaggies and feathering. Played back on a compatible wide-screen display, your Blu-ray Discs and DVDs will look more detailed and cinematic than ever.

Note: 4K video playback requires a 4K-compatible TV. HDMI pass-through of 4K content from source devices is not supported. 4K upscaling of analog video is only available at 480i.

## Onkyo Remote Apps for iPod touch/iPhone and Android Phone

The Onkyo Remote App 2 for iPod touch/iPhone\*1 and Onkyo Remote for Android phone\*2 both provide an intuitive way to operate Onkyo network A/V receivers. Control input sources, adjust settings, and play audio stored in a smart phone wirelessly (Android phone only) using the application's interactive graphical display. The two Remote Apps are available separately as free downloads.

\*1 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. All models require iOS 4.2 or later. \*2 Requires Android OS 2.1 or later.

## Entertain Your Friends and Family

The TX-NR717 can assign its Front High or Front Wide channel outputs to power speakers in two other rooms of your home. You can play music in the main room and Zone 2—or, alternatively, Zone 3—at the same time, or play a different audio source in either room. Use your stereo amp to power one of the rooms and enjoy any audio source from the receiver in all three zones simultaneously, controllable with Onkyo Remote Apps for iPhone and Android phone. Integrated house-wide entertainment is now a reality.

## Innovative Design Delivers Spectacular Sound

The TX-NR717 incorporates three-stage inverted Darlingtion circuitry—an enhancement to Onkyo's proven WRAT (Wide Range Amplifier Technology)—and discrete output stage components. The design ensures low negative feedback for reduced distortion and improved handling of speaker impedance fluctuations. Quality circuitry dovetails with a heavy-duty power supply for instantaneous response to signal gains. Furthermore, PLL (Phase Locked Loop) jitter-cleaning technology enhances digital processing by removing clock noise. The result is clear, effortless sound under heavy loads.

## Direct Digital iPod/iPhone Connection for Cleaner Sound

The receiver's front-panel USB port lets you play MP3, AAC, and Apple Lossless stored on an iPod/iPhone, and MP3, WMA, AAC, and FLAC audio files stored on a flash-memory device using the system's own remote for track selection and playback. Your music will also sound much cleaner and clearer, as the audio signal is transported in digital form (rather than analog) via the direct digital connection.

## Audyssey DSX® and Dolby® Pro Logic® Ilz for Three-Dimensional Surround Sound

The TX-NR717 incorporates surround sound technologies from Audyssey and Dolby to offer you a choice of home cinema setups. Audyssey DSX can expand 5.1 sources to incorporate Wide or Height channels, while the Dolby system adds Height channels. Dolby Pro Logic Ilz can also expand stereo sources such as music or TV programs. A seven-channel setup provides a more realistic experience, with the High or Wide channels carrying subtle directional and ambient effects.

## SPECIFICATIONS

### Amplifier Section

<b>Power Output</b>	
Front L/R	170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Center	170 W (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 185 W (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround L/R	170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
Surround Back L/R, Front High L/R, or Zone 2 L/R	170 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC) 185 W/Ch (6 Ω, 1 kHz, 1 Channel Driven, JEITA)
<b>Dynamic Power</b>	
	250 W (3 Ω, Front) 220 W (4 Ω, Front) 130 W (8 Ω, Front)
<b>THD+N (Total Harmonic Distortion + Noise)</b>	
	0.08% (20 Hz–20 kHz, Rated Power)
<b>Damping Factor</b>	
	60 (Front, 1 kHz, 8 Ω)
<b>Input Sensitivity and Impedance</b>	
	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
<b>Rated RCA Output Level and Impedance</b>	
	200 mV/470 Ω (Line Out)
<b>Maximum RCA Output Level and Impedance</b>	
	4.6 V/470 Ω (Line Out)
<b>Phono Overload</b>	
	70 mV (MM, 1 kHz, 0.5%)
<b>Frequency Response</b>	
	5 Hz–100 kHz/±1 dB, -3 dB (DSP, Bypass)
<b>Tone Control</b>	
	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
<b>Signal-to-Noise Ratio</b>	
	106 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)
<b>Speaker Impedance</b>	
	4 Ω – 16 Ω or 6 Ω – 16 Ω

### Video Section

<b>Input Sensitivity/Output Level and Impedance</b>	
Video	1.0Vp–p/75 Ω (Component Y) 0.7Vp–p/75 Ω (Component Pb/Cb, Pr/CR) 1.0Vp–p/75 Ω (Composite)
<b>Component Video Frequency Response</b>	
	5 Hz–100 MHz/±0 dB, -3 dB

### Tuner Section

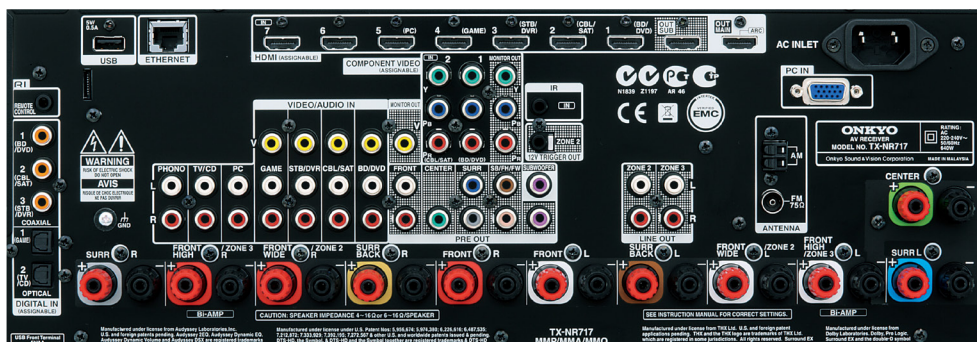
<b>Tuning Frequency Range</b>	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
<b>FM/AM Preset Memory</b>	
	40 Stations

### General

<b>Power Supply</b>	AC 220–240V~, 50/60 Hz
<b>Power Consumption</b>	640 W
<b>Standby Power Consumption</b>	0.1 W
<b>Dimensions (W × H × D)</b>	435 × 174 × 379 mm
<b>Weight</b>	12.1 kg
<b>CARTON</b>	
<b>Dimensions (W × H × D)</b>	570 × 298 × 469 mm
<b>Weight</b>	15.0 kg (Asian Model: 15.5 kg)

### Supplied Accessories

- Indoor FM Antenna • AM Loop Antenna • Speaker Cable Labels
  - Speaker Set-Up Microphone • Instruction Manual
  - Quick Start Guide • Remote Controller • AA (R6) Batteries\* × 2
- \*Not included with Chinese model.



Text on receiver may vary with region.

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