

## Yamaha Upgrades the Stereo Integrated Amplifier with CD/DVD Direct, Extended Frequency Response and Other High Sound Quality Features.



Flip-Down Hidden Control Panel offers headphone jack, speaker A, B or A+B selector, bass/treble/balance controls with center clicks and loudness control.

*CD/DVD Direct  
Amplification*

### 1 **High Sound Quality**

- Switchable CD/DVD Direct Amplification
- Super Audio CD and DVD-Audio Ready with Extended Frequency Response
- Linear Damping
- High Dynamic Power, Low-Impedance Drive Capability

### 2 **Advanced Facilities**

- Continuously Variable Loudness Control and Bass/Treble/Balance Controls (with Center Clicks)
- Remote Controllable Motor-Driven Volume Control
- RoHS Compliant

#### AX-397 Main Specifications

##### [AUDIO SECTION]

Minimum RMS Output Power (8 ohms, 20 Hz—20 kHz, 0.019% THD)	60 W + 60 W
Minimum RMS Output Power (6 ohms, 20 Hz—20 kHz, 0.038% THD)	70 W + 70 W
Output Power (4 ohms, 1 kHz, 0.7 % THD)	95 W + 95 W
Maximum Power (8 ohms, 1 kHz, 10% THD)	100 W + 100 W
Dynamic Power (8/6/4/2 ohms)	100 W/120 W/140 W/150 W
Damping Factor (8 ohms, 20 Hz-20 kHz)	240 (speaker A)
Input Sensitivity/Impedance	
Phono (MM)	2.5 mV/47 k-ohms
CD	195 mV/47 k-ohms
Frequency Response (CD Direct On)	10 Hz-100 kHz ±1 dB
Total Harmonic Distortion (20 Hz—20 kHz)	
Phono (MM) to Rec Out	0.003% (3 V)
CD to Sp Out	0.009% (42.5 W/8 ohms)
Signal-to-Noise Ratio (Input Shorted)	
Phono (MM) [Input Shorted 5 mV]	88 dB
CD [Input Shorted 195 mV]	110 dB (CD Direct On))

##### [GENERAL SECTION]

Dimensions (W x H x D)	435 x 151 x 390 mm; 17-1/8" x 5-15/16" x 15-3/8"
Weight	8.3 kg; 18.3 lbs.

High Sound Quality

Switchable CD/DVD Direct Amplification

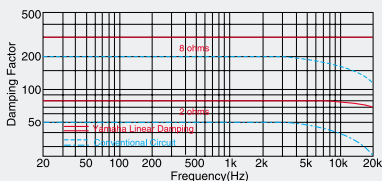
*CD/DVD Direct Amplification*  
Engaged by a front panel switch, it matches CD/DVD signal levels so each stage produces less noise, resulting in improved S/N ratio and maintenance of the amp's total gain balance.

Super Audio CD and DVD-Audio Ready

Rather than the usual 20Hz–20kHz frequency response, Yamaha has given the AX-397 the ability to handle frequencies from 10Hz to 100kHz (1dB). Although the ear cannot hear the higher frequencies, it has been proven that these harmonics can affect sound reproduction quality. Super Audio CD and DVD-Audio other new formats will be able to output sound over this range, so the AX-397 is fully compatible with products using these formats.



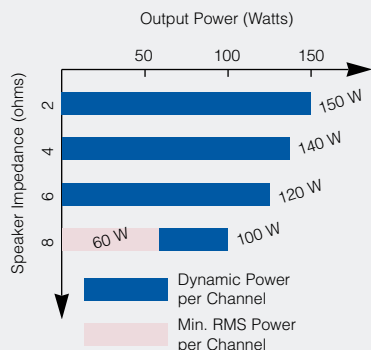
Damping Factor Characteristics



Linear Damping

Yamaha's Linear Damping maintains a high, stable damping factor even at frequencies from 10Hz to 20kHz, where it generally tends to fall off. The result is superior articulation of all sounds.

Output Power vs. Speaker Impedance



Linear Damping

Level variations due to high amp impedance tend to reduce an amplifier's damping factor, and frequency variations cause it to fluctuate. This circuit cancels the effect of these variations, maintaining a high, stable damping factor, for superior articulation of all sounds and better frequency response.

High Dynamic Power, Low-Impedance Drive Capability

Yamaha amplifiers/receivers are capable of delivering large amounts of reserve power for accurate reproduction of high energy peaks. This emphasizes the music's dynamic qualities and provides a sharper sound image.

Advanced Facilities

Continuously Variable Loudness Control and Bass/Treble/Balance Controls

With this control, the midrange frequencies are attenuated over a continuously varying, level-dependent curve, instead of a fixed level of low and high frequency boost as in conventional loudness controls.

The bass/treble/balance controls are continuously variable, so they can offer smooth and accurate tonal response control over a wide range. And, with the controls set to their

center defeat positions, you have a perfectly flat tonal balance, with no influence on the original sound.

Remote Controllable Motor-Driven Volume Control

The remote unit can be used to turn the volume control. The command from the remote activates a motor which moves the volume knob. Because operation is mechanically driven, signal quality is not degraded.

Speaker A, B or A+B Selection

Speaker A, B or A+B selection lets you listen to either or both of two sets of speakers in two locations.

RoHS Compliant

This environmentally friendly amplifier fully complies with the EU's RoHS (Restriction of Hazardous Substances) standards.

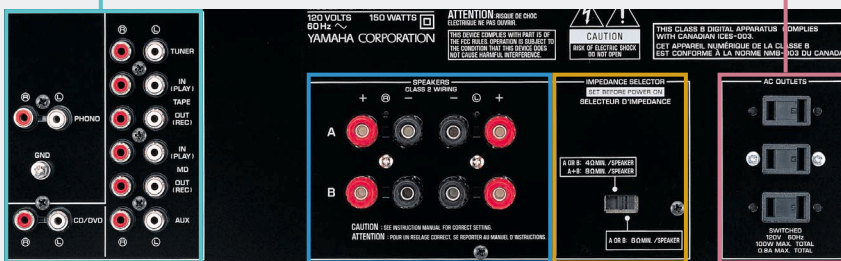
Other Notable Features

- 6 Audio Input Positions with Tape Monitor
- Speaker Impedance Selector (6 ohms/4 ohms)
- Three Switched AC Outlets (UK and Australian models have one outlet.)
- 2-Way Binding-Post Speaker Terminals (banana\*/cable)
- \* Not available on European, Singapore and Korean models
- Front Panel Headphone Jack
- System Remote Control Unit

AX-397 Extensive Connections

6 Audio Input (including Tape Monitor) and 2 Audio Output Terminals

Three Switched AC Outlets (UK and Australian models have one outlet.)



Speaker L/R (Speaker A, B or A+B Selection) Terminals (2-Way Binding-Post Speaker Terminals [Banana-Plug Compatible]\*)

Impedance Selector (8/4 ohms)

\* Not available on European, Singapore and Korean models

• Product designs and specifications are subject to change without notice.

**Brilliant Audio: Titanium**  
Availability of titanium finish varies by area. Please contact your dealer for availability.