

**Top Class High Power and Pure Sound Technology with ToP-ART, CD Direct Amplification and Linear Damping, Plus Convenient Features such as Multi-Zone Control Capability.**



Black finish available in some areas

Preset Remote (Right) and Zone Remote (Left) Units



ToP-ART *CD Direct Amplification*

## 1 High Sound Quality

- ToP-ART (Total Purity Audio Reproduction Technology)
- Switchable CD 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

- Multi-Zone Control Capability with Dedicated Zone Remote Unit
- Preset Remote Unit for Main Zone
- Continuously Variable Loudness Control
- Subwoofer Out
- Remote Controllable Motor-Driven Volume Control
- RoHS Compliant

### RX-797 Main Specifications

#### [AUDIO SECTION]

Minimum RMS Output Power (8 ohms, 20 Hz—20 kHz, 0.019% THD)	100 W + 100 W
Minimum RMS Output Power (6 ohms, 20 Hz—20 kHz, 0.03% THD)	120 W + 120 W
Output power (4 ohms, 1 kHz, 0.7% THD)	160 W + 160 W
Maximum Power (8 ohms, 1 kHz, 10% THD)	145 W + 145 W
Dynamic Power (8/6/4/2 ohms)	140 W/170 W/220 W/290 W
Damping Factor (8 ohms, 20 Hz-20 kHz)	240 (speaker A)
Input Sensitivity/Impedance	
Phono (MM)	2.5 mV/47 k-ohms
CD	200 mV/47 k-ohms
Main In	1 V/30 k-ohms
Frequency Response (Pure Direct)	10 Hz-100 kHz ±1 dB
Total Harmonic Distortion (20 Hz—20 kHz)	
Phono (MM) to Rec Out	0.008% (3 V)
CD to Pre Out	0.007% (1 V)
CD to Sp Out	0.012% (50 W/8 ohms)
Signal-to-Noise Ratio [Input Shorted]	
Phono (MM) [5 mV]	87 dB
CD [200 mV]	110 dB (CD Direct On)

#### [TUNER SECTION]

FM 50dB Quieting Sensitivity (Mono/Stereo)	2 µV (17.3 dBf)/25 µV (39.2 dBf)
FM Usable Sensitivity (Mono)	1 µV (11.2 dBf)
FM Selectivity (400 kHz)	70 dB
FM Signal-to-Noise Ratio (Mono/Stereo)	76 dB/70 dB

#### [GENERAL SECTION]

Dimensions (W x H x D)	435 x 151 x 389 mm 17-1/8" x 5-15/16" x 15-5/16"
Weight	10.6 kg; 23.4 lbs.

**High Sound Quality**

**ToP-ART (Total Purity Audio Reproduction Technology)**

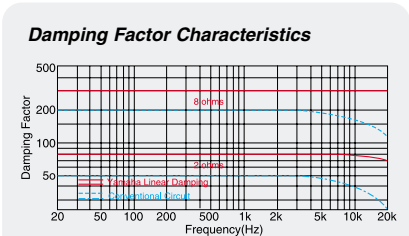
**ToP-ART™** When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features I/O (input to output) Direct Symmetrical Design, with left and right channels organized in a straight, symmetrical layout for highest signal purity.

**Switchable CD Direct Amplification (Discrete Configuration)**

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

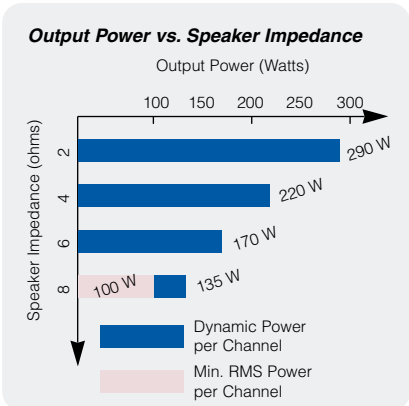
**Super Audio CD and DVD-Audio Ready with Extended Frequency Response**

Rather than the usual 20Hz–20kHz frequency response, Yamaha has given the RX-797 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



**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.



reproduction quality. DVD-Audio, Super Audio CD and other new formats will be able to output sound over this range, so the RX-797 is fully compatible with products using these formats.

**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**

The RX-797 is 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**

**Custom Installation Compatibility**

As befits a high performance receiver, the RX-797 is designed to be suitable for use in custom installations. It has a Zone 2 out so the audio/video signal can be output in a second room. In addition, You can enjoy audio in 3 different zones in your home by using main zone speaker output, Speaker B output, and zone 2 audio/video output. There is also a Zone 2 power switch, an 2-in/1-out remote terminals and trigger out.



Zone Remote Unit

**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.

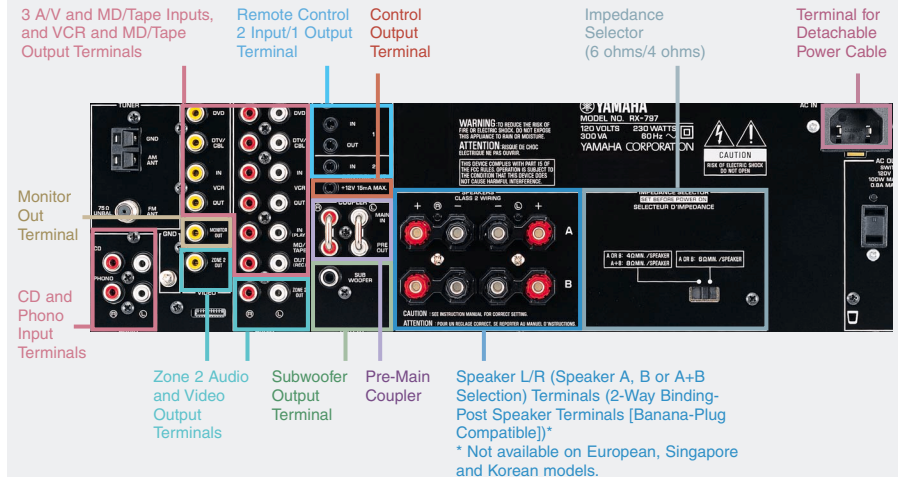
**RoHS Compliant**

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

**Other Notable Features**

- Pure Direct for Short and Direct Signal Path
- Twin Heavy-Duty Aluminum-Extruded Heat Sinks for Efficient Heat Dissipation
- All Electronic Parts are Exceptionally High Quality
- Logical Interior Layout for Low Distortion and Reduced Noise
- Anti-Vibration, Anti-Resonance Chassis
- Thick ART (Anti-Resonance & Tough) Base
- Rec Out/Zone 2 Selector
- Remote Controllable Motor-Driven Volume Control
- Speaker A, B or A+B Selection
- RDS: Radio Data System (european models only)
- 40-Station AM/FM Random Access Preset Tuning
- Auto FM Station Memory and Preset Editing (Auto Station Memory)
- Preset Remote Control Unit for Main Zone

**RX-797 Extensive Connections**



• 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.