

High quality Stereo Receiver features ToP-ART, CD direct amplification and linear damping, plus convenience features such as XM Ready and multi-zone control capabilities.


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

- XM Satellite Radio Ready
- 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

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 (CD Direct On) 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 μ V (17.3 dBf)/25 μ V (39.2 dBf)

FM Usable Sensitivity (Mono) 1 μ V (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) 17-1/8" x 5-15/16" x 15-3/8"

Weight 21.6 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.

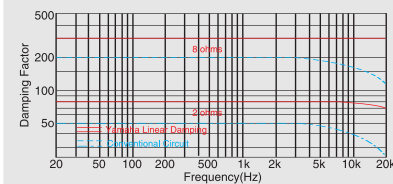
Switchable CD Direct Amplification (Discrete Configuration)

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 reproduction quality. DVD-Audio, Super Audio CD and other new

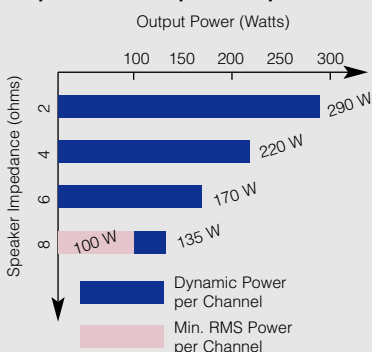
Damping Factor Characteristics



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



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 Features

XM Satellite Radio Ready

This receiver is XM Satellite Radio Ready, allowing you to hear over 150 digital channels of music, news, sports, talk and entertainment from America's number one Satellite Radio service. With the addition of the XM Connect and Play digital antenna accessory (sold separately) just subscribe to XM Satellite Radio and hear radio as it was meant to be!

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



Zone Remote Unit

audio/video output. There is also a Main/Zone 2 power switch, an 2-in/1-out remote terminals and trigger out.

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.

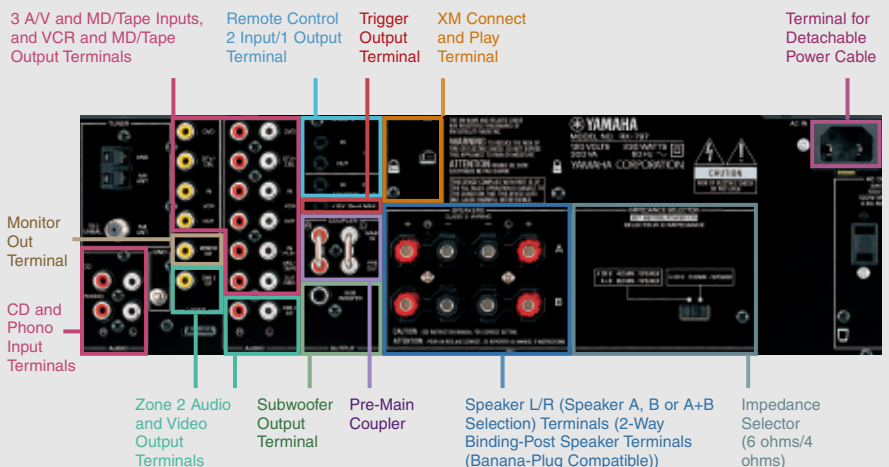
RoHS Compliant

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
- Gold-Plated Input Terminals
- 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
- 40-Station AM/FM Random Access Preset Tuning
- Auto FM Station Memory and Preset Editing (Auto Station Memory)
- Preset Remote Control Unit

RX-797 Extensive Connections



- The XM Satellite Radio service is only available in the 48 contiguous United States (not available in Alaska and Hawaii).
- XM name, XM Ready and related logos are registered trademarks of XM Satellite Radio, Inc.
- Product designs and specifications are subject to change without notice.