

TX-SR309 5.1-CHANNEL HOME THEATER RECEIVER

HDMI® Support for 3D Video and Audio Return Channel

The three HDMI inputs on the TX-SR309 let you simultaneously connect high-def sources such as a Blu-ray player, a gaming console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel. 3D video brings exciting possibilities to home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs coming to market. The TX-SR309 also offers the convenience of an Audio Return Channel via HDMI. Audio content received directly by your HDTV's tuner can be sent "upstream" to your A/V receiver, without the need for a separate S/PDIF audio cable.

Direct Digital Connection of iPod®/iPhone® via Front-Panel USB Port

The TX-SR309's front-panel USB port lets you access MP3, WMA, AAC, and FLAC audio files stored on a USB flash drive or iPod/iPhone. As the audio signals are transported in digital form, rather than analog, there is much less chance for signal degradation. End result: your music sounds cleaner and more faithful to the original. Another benefit of the USB input is that it lets you use the system's remote controller to play back audio files on the connected device.

Decoding of High-Definition Surround-Sound Codecs

The TX-SR309 can decode Dolby® TrueHD and DTS-HD Master Audio™—two lossless formats that enable delivery of a bit-for-bit soundtrack identical to the studio master track. These codecs take advantage of the high data capacity of the Blu-ray format. The TX-SR309 also handles two "lossy" audio formats: Dolby® Digital Plus and DTS-HD High Resolution Audio™. Dolby Digital Plus is designed to accompany high-definition video delivered via disc media, broadcasts, and online content. DTS-HD High Resolution Audio, meanwhile, offers a greater bit rate, a higher sampling rate, and more channels than the core DTS technology.

Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to the TX-SR309's overlaid On-Screen Display (OSD) feature. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to switch back and forth from a blank screen background.

Four Audio Game Modes for More Realistic Action

These four gaming modes create an audio experience with more realism and impact. You can select from Rock, Sports, Action, or RPG (Role Playing Game) modes to match your gaming content.

192 kHz/24-Bit TI Burr-Brown DACs Improve Jitter Performance to Deliver Clearer Sound

High-quality Burr-Brown DACs work to optimize analog audio performance on the TX-SR309. These DACs perform advanced 24-bit signal processing and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter.

Advanced Music Optimizer to Enhance Compressed Digital Music Files

While MP3 or AAC files may sound fine through the headphones of your portable digital player, the limitations of these files can be exposed when played back through a quality home entertainment system. This is because a significant amount of high-frequency bit information is lost during the file-compression process. To counter this, Onkyo has designed the Advanced Music Optimizer to compensate for lost bit information and improve the quality of compressed audio signals. This results in a clearer and more expansive sound. Also included in this technology is a loudness correction feature that further improves the audio character of compressed files.

SPECIFICATIONS

Amplifier Section

Power Output	
Front L/R	65 W/Ch (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC) 90 W/Ch (6 ohms, 1 kHz, 0.9%, 2 channels driven, FTC)
Center	65 W (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC) 90 W (6 ohms, 1 kHz, 0.9%, 2 channels driven, FTC)
Surround L/R	65 W/Ch (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC) 90 W/Ch (6 ohms, 1 kHz, 0.9%, 2 channels driven, FTC)
Dynamic Power	160 W (3 ohms, Front) 125 W (4 ohms, Front) 85 W (8 ohms, Front)

THD+N (Total Harmonic Distortion + Noise)
0.08% (20 Hz–20 kHz, Half power)

Damping Factor
60 (Front, 1 kHz, 8 ohms)

Input Sensitivity and Impedance

200 mV/47 k-ohms (Line)

Rated RCA Output Level and Impedance

200 mV/2.2 k-ohms (Rec out)

Maximum RCA Output Level and Impedance

2.0V/2.2 k-ohms (Rec out)

Frequency Response
20 Hz–50 kHz/±1 dB, -3 dB (DSP bypass)

Tone Control
±10 dB, 50 Hz (Bass)
±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio
100 dB (Line, IHF-A)

Speaker Impedance
6 ohms–16 ohms

Video Section

Input Sensitivity/Output Level and Impedance

Video
1.0 Vp–p/75 ohms (Component)
0.7 Vp–p/75 ohms (Component Pb/Cb, Pr/Cr)
1.0 Vp–p/75 ohms (Composite)

Component Video Frequency Response

5 Hz–100 MHz/0 dB, -3 dB

Tuner Section

Tuning Frequency Range

FM 87.5 MHz–107.9 MHz

AM 530 kHz–1,710 kHz

FM/AM Preset Memory
40 stations

General

Power Supply
AC 120V~, 60 Hz

Power Consumption
3.3 A

Dimensions (W x H x D)
17 1/8" x 5 7/8" x 12 1/4"

(435 x 150 x 328 mm)

Weight
16.5 lbs. (7.5 kg)

CARTON

Dimensions (W x H x D)
21 1/4" x 10 7/8" x 16 1/4"

(537 x 268 x 416 mm)

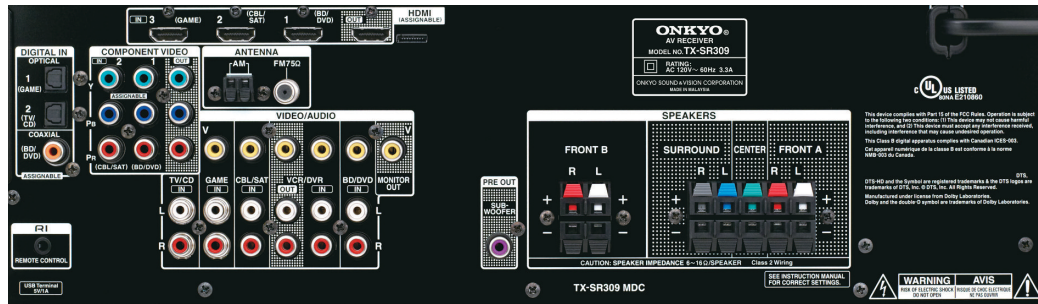
Weight
21.2 lbs. (9.6 kg)

UPC CODE

(B) 751 398009976

Supplied Accessories

- Indoor FM antenna • AM loop antenna • Speaker cable labels
- Instruction manual • Quick set-up guide • Remote controller
- AA (R6) batteries x 2



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