

TX-SR308

 5.1-Channel Home Theater Receiver

BLACK



The Ideal Choice for Newcomers—a High-Value Home Theater Centerpiece

At the budget-conscious end of the home entertainment spectrum, you're looking to maximize performance and features without putting undue strain on your finances. At Onkyo, we get it. That's why we've redefined the entry-level A/V receiver once more, with the high-value TX-SR308. Not only is it ready for the 3D video—thanks to its HDMI® 1.4a specification—but it also handles high-definition lossless audio codecs from Dolby and DTS. Advanced A/V processing on a bedrock of classic Onkyo engineering is complemented by a bevy of convenient features: a new overlaid On-Screen Display for easy adjustment of settings; a Universal Port for single-cable connection of peripherals; and a front-panel audio input for direct connection of iPods and other MP3 players. With the TX-SR308, you get an affordable home theater centerpiece ready to drive the latest high-def entertainment sources.

HDMI® 1.4a Support for 3D Video and Audio Return Channel

HDMI has fast become the cable of choice for connecting today's A/V components. The three HDMI 1.4a inputs on the TX-SR308 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. As the latest version of this connector, HDMI 1.4a adds the exciting possibilities of 3D video and an Audio Return Channel. 3D video is the next big thing in home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs on the near horizon. The TX-SR308 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.

Decoding of High-Definition Surround-Sound Codecs

The TX-SR308 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, previously available only on mid-range and high-end receivers, take advantage of the high data capacity of the Blu-ray format. The TX-SR308 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,

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.

Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone™/iPod® or HD Radio™ Tuner

A proprietary Universal Port located on the rear side of the TX-SR308 lets you connect an optional UP-A1 Dock for iPhone/iPod or UP-HT1 HD Radio Tuner. If you have both peripheral devices, they can easily be "daisy chained" via an input on the UP-HT1. A key advantage of the Universal Port is that it accepts video and audio signals through the same cable that sends a power supply from the receiver to the devices. Net result: more connectivity, less cable clutter.

Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever; thanks to the TX-SR308's new 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 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.



TX-SR308 5.1-Channel Home Theater Receiver

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

High-quality Burr-Brown DACs (PCM1690) work to optimize analog audio performance on the TX-SR308. These DACs perform advanced 24-bit signal processing and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter and offering a 113 dB dynamic range.

Front-Panel Audio Input for Portable Devices

If you have an iPod® or other MP3 player, you can connect it to the TX-SR308's front panel for quick and convenient audio playback. Your player's compressed digital music files can then receive a quality boost from the receiver's Music Optimizer technology.

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 onboard Music Optimizer technology to compensate for lost bit information and improve the quality of compressed audio signals.

ADVANCED FEATURES

- HDMI® (Version 1.4a to Support 3D and Audio Return Channel) with Deep Color™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone™/iPod® or HD Radio™ Tuner
- Overlaid On-Screen Display (OSD) via HDMI

AMPLIFIER FEATURES

- 65 Watts per Channel at 8 Ohms, 20 Hz–20 kHz, 0.7%, 2 Channels Driven, FTC
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Jitter-Cleaning Circuit Technology

PROCESSING FEATURES

- Burr-Brown 192 kHz/24-Bit DACs (PCM1690) for All Channels
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG (Role Playing Game)
- Music Optimizer™ for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- CinemaFILTER™
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory

CONNECTION FEATURES

- Audio and 1080p Video Processing via HDMI (3 Inputs and 1 Output)
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Front-Panel Audio Input for Portable Devices
- 3 Digital Inputs (2 Optical and 1 Coaxial)
- 4 A/V Inputs and 1 Output
- Video Output (Monitor)
- 1 Audio Input
- Subwoofer Pre Out
- Speaker A/B Terminals
- Banana Plug-Compatible Speaker Posts for Front L/R Channels (Speaker A)
- Color-Coded Speaker Terminals
- Headphone Jack

OTHER FEATURES

- Crossover Adjustment (40/50/60/80/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 100 ms in 10 ms Steps)
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- Sleep Timer (via Remote)
- Battery-Free Memory Backup
- 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Compatible with RI (Remote Interactive) Dock for iPod
- RI (Remote Interactive) Remote Control

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	65 W/Ch (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC)
Center	65 W (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC)
Surround L/R	65 W/Ch (8 ohms, 20 Hz–20 kHz, 0.7%, 2 channels driven, FTC)
Dynamic Power	
	160 W (3 ohms, Front)
	125 W (4 ohms, Front)
	85 W (8 ohms, Front)
THD (Total Harmonic Distortion)	
	0.08% (1 kHz, 1 W)
Damping Factor	
	60 (Front, 1 kHz, 8 ohms)
Input Sensitivity and Impedance	
	200 mV/47 k-ohms (Line)
Output Level and Impedance	
	200 mV/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 Pa/Ca, 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 120 V~, 60 Hz
Power Consumption	3.3 A
Dimensions (W x H x D)	17 1/8" x 5 7/8" x 12 7/8" (435 x 151.5 x 328.5 mm)
Weight	17.6 lbs. (8.0 kg)

CARTON

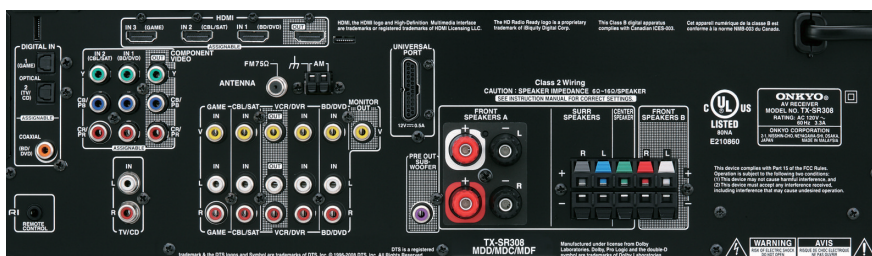
Dimensions (W x H x D)	21 1/8" x 10 7/8" x 16 7/8" (537 x 268 x 416 mm)
Weight	22.9 lbs. (10.4 kg)

UPC CODE

(B) 751398009228

Supplied Accessories

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



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