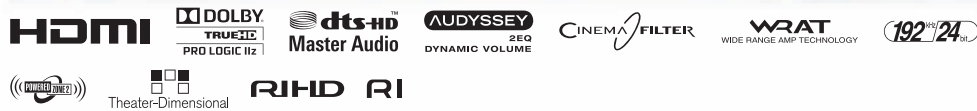


TX-SR508 7.1-Channel Home Theatre Receiver

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Onkyo Once Again Brings Advanced Features to Entry-Level Home Theatre

At Onkyo, our mission is to deliver outstanding audio and video quality to your home, no matter what budget you're on. With the 7.1-channel TX-SR508, you get an entry-level home theatre centerpiece built to unleash the potential of your favorite entertainment sources. The TX-SR508 arrives brimming with processing and connectivity features previously unheard of at this level: Four 3D-ready HDMI® 1.4 inputs for connecting your high-definition sources; Studio master-quality HD audio formats from Dolby and DTS; Dolby® Pro Logic® IIz for new surround-sound possibilities; Powered Zone 2 and bi-amping for more speaker flexibility; and a Universal Port and front-side input for connecting peripherals and portable devices. Meanwhile, Audyssey volume and equalization technologies ensure comfortable listening and a room-fitting soundstage. Underpinning it all is decades of Onkyo amplifier expertise in the form of WRAT (Wide Range Amplifier Technology) and a high-current, low-impedance drive.

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

HDMI has fast become the cable of choice for connecting today's A/V components. The four HDMI 1.4 inputs on the TX-SR508 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 1.4 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-SR508 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 Codexes

The TX-SR508 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 codexes, previously available only on mid-range and high-end receivers, take advantage of the high data capacity of the Blu-ray format. The TX-SR508 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.

Dolby® Pro Logic® IIz Adds New Dimensions to Surround Sound

As with previous versions of Dolby Pro Logic, this latest version delivers a convincing surround-sound experience from any movie or music source—even a stereo one. On the TX-SR508, Dolby Pro Logic IIz enables you to incorporate two "front high" speakers into your surround-sound set-up as an alternative to the two surround back speakers. The front high channels carry ambient, non-directional audio that helps immerse you even more deeply into your movies and games.

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-SR508. 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.



TX-SR508 7.1-Channel Home Theatre Receiver

Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to the TX-SR508'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.

A Suite of Audyssey Technologies for the Ideal Listening Environment

The TX-SR508 comes with three Audyssey technologies that help create the most suitable listening environment for your home.

(1) Audyssey 2EQ™

Tailors multi-channel audio for your home theatre speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.

(2) Audyssey Dynamic Volume™

Automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.

(3) Audyssey Dynamic EQ™

Maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels, so you can enjoy the natural dynamics of your content regardless of the volume.

Playback of Different Audio Sources in Two Different Zones

With Powered Zone 2, you can enjoy surround-sound entertainment in the main room, while playing back a different stereo source in a second zone equipped with a pair of speakers. Alternatively, you can use the Zone 2 line-out to send an unamplified audio signal to an amplifier (and speakers) in the second room.

Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone™/iPod

A proprietary Universal Port located on the rear side of the TX-SR508 lets you connect an optional UP-A1 Dock for iPhone/iPod. 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.

ADVANCED FEATURES

- HDMI® (Version 1.4 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
- Dolby® Pro Logic® IIz for New Surround Channels
- Burr-Brown 192 kHz/24-Bit DACs (PCM1690) for All Channels
- Jitter-Cleaning Circuit Technology
- Audyssey 2EQ™ for Room Acoustic Correction
- Audyssey Dynamic Volume™
- Audyssey Dynamic EQ™ for Loudness Correction
- Powered Zone 2 and Zone 2 Line-Out for Playback of Separate Source in Another Room
- Overlaid On-Screen Display (OSD) via HDMI

AMPLIFIER FEATURES

- 80 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 Channels Driven, FTC;
- 130 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, IEC;
- 160 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- WRAT (Wide Range Amplifier Technology)
- High-Current Low-Impedance Drive
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Bi-Amping Capability

PROCESSING FEATURES

- 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
- Pure Audio Mode
- Direct Mode
- Double Bass Function
- CinemaFILTER™
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Theater-Dimensional Virtual Surround Function

CONNECTION FEATURES

- Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone/iPod
- Audio and 1080p Video Processing via HDMI (4 Inputs and 1 Output)
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Front-Panel Audio Input for Portable Devices
- Front-Panel Auxiliary A/V Input
- 4 Digital Inputs (2 Optical and 2 Coaxial)
- 4 A/V Inputs and 1 Output
- Video Output (Monitor)
- 1 Audio Input
- Subwoofer Pre Out
- Color-Coded, Banana Plug-Compatible Speaker Posts (Except Front High or Zone 2)
- 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
- Preprogrammed RI (Remote Interactive) Remote Control

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	80 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC;
	130 W/Ch at 6 Ω, 1 kHz, 1 channel driven, IEC;
	160 W/Ch at 6 Ω, 1 kHz, 1 channel driven, JEITA
Center	80 W at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC;
	130 W at 6 Ω, 1 kHz, 1 channel driven, IEC;
	160 W at 6 Ω, 1 kHz, 1 channel driven, JEITA
Surround L/R	80 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC;
	130 W/Ch at 6 Ω, 1 kHz, 1 channel driven, IEC;
	160 W/Ch at 6 Ω, 1 kHz, 1 channel driven, JEITA
Surround Back L/R, Front High L/R, or Zone 2 L/R	80 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC;
	130 W/Ch at 6 Ω, 1 kHz, 1 channel driven, IEC;
	160 W/Ch at 6 Ω, 1 kHz, 1 channel driven, JEITA
Dynamic Power	
	180 W (3 Ω, Front)
	160 W (4 Ω, Front)
	100 W (8 Ω, Front)

THD (Total Harmonic Distortion)

0.08% (1 kHz, 1 W)

Damping Factor

60 (Front, 1 kHz, 8 Ω)

Input Sensitivity and Impedance

200 mV/47 kΩ (Line)

Output Level and Impedance

200 mV/2.2 kΩ (Rec out)

Frequency Response

5 Hz–100 kHz/+1 dB, -3 dB (DSP bypass)

Tone Control

±10 dB, 50 Hz (Bass)

±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio

106 dB (Line, IHF-A)

Speaker Impedance

4 Ω–16 Ω or 6 Ω–16 Ω

VIDEO SECTION

Input Sensitivity/Output Level and Impedance

Video 1.0 Vp–p/75 Ω (Component)

0.7 Vp–p/75 Ω (Component Pa/Cs, Pr/Cr)

1.0 Vp–p/75 Ω (Composite)

Component Video Frequency Response

5 Hz–100 MHz/0 dB, -3 dB

TUNER SECTION

Tuning Frequency Range

FM 87.5 MHz–108 MHz

AM 522 kHz–1,611 kHz

530 kHz–1,710 kHz

FM/AM Preset Memory

40 stations

GENERAL

Power Supply AC 230 V~, 50 Hz

Power Consumption 450 W

Dimensions (W x H x D) 435 x 151.5 x 328.5 mm

Weight 9.4 kg

■ CARTON

Dimensions (W x H x D) 537 x 268 x 416 mm

Weight 12.0 kg

■ Supplied Accessories

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



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