

TX-SR606 7.1-Channel Home Theatre Receiver

SILVER BLACK



The Progression of Affordable High-Def Home Theatre Continues with Full HD Integration and Video Upscaling

As part of the second generation of Onkyo high-definition-capable receivers, the TX-SR606 is at the forefront of affordable home theatre. The key is to have the most capable version of HDMI. The TX-SR606 provides high-definition video and audio processing for four source components—another first for Onkyo at this level. From Blu-ray Disc players to gaming consoles and cable/satellite boxes, you have everything in the digital realm covered. Apart from 1080p video, the TX-SR606 will upscale to 1080i all analog video signals—from component video, S-Video and composite video inputs—for output via HDMI. Onkyo's own RIHD (Remote Interactive over HDMI) also gives you inter-operability with the displays and playback components from other leading brands. And with an expanded version of Audyssey's room correction technology, the TX-SR606 maintains the fullness of surround sound audio quality at low volume levels. The TX-SR606 offers all-round excellence rarely seen at this level.

Processing 1080p Video and High-Def Surround Sound via HDMI 1.3a

With the latest HDMI version and advanced A/V processing capabilities, the TX-SR606 is a powerful control center for all high-definition media, including Blu-ray Disc and HD broadcasts. You can connect up to four components via HDMI to receive and switch compatible sources for a pure digital connection to an HDTV. Also, all multichannel audio—from bit-for-bit streams to standard Dolby Digital—can be digitally transported via HDMI for processing by the TX-SR606. This version of HDMI enables CEC (Consumer Electronics Control), greater bandwidth to deal with higher resolutions, 36-bit Deep Color™, and high frame rates.

The Full Range of Next-Generation, High-Definition Surround-Sound Codecs

The TX-SR606 has the decoding technologies—Dolby TrueHD® and DTS-HD® Master Audio—to enable a lossless, bit-for-bit soundtrack that is identical to that of the studio master. Both codecs are designed for the Blu-ray Disc format. The receiver also handles two “lossy” technologies: Dolby® Digital Plus and DTS-HD® High Resolution Audio. Dolby Digital Plus has been designed for 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.

HDMI Video Upscaling (to 1080i) and Faroudja DCDi Edge™ (Directional Correlational Deinterlacing) Technology

The TX-SR606's HDMI inputs can receive pristine digital video from HDMI-enabled components for a single-cable output to a display device with an HDMI or DVI connection. 1080p video is processed as it is, but all other signals from component video, S-Video and composite video are upscaled to 1080i via HDMI. Upscaling takes the video resolution to pure HD quality, and it better matches the native resolution of today's high-definition displays. To further improve performance on high-definition displays, the TX-SR606 features a deinterlacing chip with Faroudja DCDi Edge technology, which effectively eliminates video artifacts.

RIHD (Remote Interactive over HDMI) for System Control*

Courtesy of HDMI 1.3a, the TX-SR606 offers integrated system control with selected HDMI-compatible high-definition displays, DVD and hard-disk recorders, and Blu-ray Disc players. With one remote control, you can control several functions, including Standby, Volume Command and Direct Change. RIHD lets you seamlessly integrate the TX-SR606 with other leading brand-name devices, including those with Panasonic VIERA Link™ capability, and selected Sharp displays.

*Compatibility depends on respective model.



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Correcting Room Distortion and Loudness with Audyssey 2EQ™ and Audyssey Dynamic EQ™

The TX-SR606 uses Audyssey 2EQ to counter distortion created by walls, furniture, and other objects. This technology detects speaker distance, and then sets levels, delays, and crossovers, while also measuring room acoustics. Compared to one-position room correction systems, Audyssey 2EQ covers a much wider listening area. Moreover, it corrects problems in both frequency response and time domain (where most of the problems lie) across the entire listening area. The results are immediately obvious—a clear, well-balanced and natural sound.

After 2EQ calibration, Audyssey Dynamic EQ solves the problem of deteriorating sound quality at lower volumes. The professionals who create music and movies do so at reference levels much louder than typical home listening levels. When volume is reduced on a standard home theatre receiver, the bass disappears, voices change, and the surround soundstage becomes less enveloping. As volume is adjusted on the TX-SR606, however, Dynamic EQ selects the best possible frequency response and surround levels moment-by-moment, resulting in an ideal listening experience at any volume level.

Bi-Amping Capability for High-Impact Movies and Music

The TX-SR606's surround back speaker channels enhance the ambience and sound effects of movies. They can also be used with the front left and right channels to provide two separate amplification channels for compatible bi-amping speakers (i.e. those with two sets of input terminals). In effect, two separate channels drive the woofer and tweeter of each front speaker. This improves sound quality by maximizing power to the low-/mid- and high-range frequencies, respectively. It also gives you a more powerful, dynamic soundfield for two-channel music and movie sound effects.

Music Optimizer to Support Compressed Digital Music Files

While MP3 or AAC files may sound fine on a portable digital player, the limitations of these compressed files can be exposed when played back through a home entertainment system. Onkyo has designed onboard Music Optimizer technology to improve the quality of compressed audio signals. Compressed music loses a substantial amount of bit information at higher frequencies, so the Music Optimizer technology works to overcome this limitation and enhance audio quality.

ADVANCED FEATURES

- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus Decoding
- HDMI (v.1.3a to Support Deep Color, x.v. Color, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD)
- HDMI Audio and Video Processing (1080p; 4 Inputs and 1 Output)
- HDMI Video Upscaling to 1080i from Component Video, S-Video and Composite Video Inputs
- RIHD (Remote Interactive over HDMI) for System Control
- HDTV-Capable HDMI Switching
- Deinterlacer with Faroudja DCDi Edge™ (Directional Correlational Deinterlacing) Technology
- Audyssey 2EQ to Correct Room Acoustic Problems and to Calibrate Speakers

- Audyssey Dynamic EQ for Loudness Correction
- Bi-Amping Capability for Music and Movie Surround Effects
- Compatible with RI (Remote Interactive) Dock for the iPod

AUDIO FEATURES

- 175 W/Ch Minimum into 6 Ω, 1 kHz, JEITA (1 Channel Driven)
- 140 W/Ch Minimum into 6 Ω, 1 kHz, IEC (1 Channel Driven)
- 90 W/Ch Minimum into 8 Ω, 20 Hz–20 kHz, 0.08%, FTC (2 Channels Driven)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx Decoding
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- HDTV-Capable (to 720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 4 Digital Inputs (2 Optical/2 Coaxial)
- Subwoofer Pre Out
- CinemaFILTER™
- Direct Mode
- A-Form Listening Mode Memory
- Optimum Gain Volume Circuitry
- Music Optimizer for Compressed Music Files
- Non-Scaling Configuration
- Tone Control (Bass/Treble) for Front L/R Channels
- Color-Coded 7.1-Multichannel Inputs
- Independent Crossover Adjustment for F/C/S/SB (40/50/60/80/100/120/150/200 Hz)
- Double Bass Function

OTHER FEATURES

- Powered Zone 2 and Zone 2 Line-Out for Playback in Another Room (Separate Source)
- Dual Banana Plug-Compatible Speaker Posts for All Channels
- A/V Synchronization Function (Up to 100 ms in 10 ms Steps)
- 40 FM/AM Radio Presets
- 4 S-Video Inputs and 2 Outputs
- 5 A/V Inputs and 1 Output
- 2 Audio Inputs and 1 Output
- Digital Upsampling
- Display Dimmer (Normal/Dim/Dimmer)
- Headphone Jack
- Sleep Timer (via Remote)
- Battery-Free Memory Backup
- Aluminum Front Panel
- Newly Designed Preprogrammed RI (Remote Interactive) Remote Control with Mode-Key LEDs

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 140 W + 140 W (6 Ω, 1 kHz, 1 channel driven, IEC) 90 W + 90 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Center	175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 140 W (6 Ω, 1 kHz, 1 channel driven, IEC) 90 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Surround L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 140 W + 140 W (6 Ω, 1 kHz, 1 channel driven, IEC) 90 W + 90 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Surround Back L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 140 W + 140 W (6 Ω, 1 kHz, 1 channel driven, IEC) 90 W + 90 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Dynamic Power	
	210 W (3 Ω, 1 ch) 180 W (4 Ω, 1 ch) 110 W (8 Ω, 1 ch)
THD (Total Harmonic Distortion)	
	0.08% (Rated power)
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 (Direct mode)
Tone Control	
	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	
	106 dB (Line, IIF-A)
Speaker Impedance	
	4 Ω–16 Ω or 6 Ω–16 Ω

VIDEO SECTION

Input Sensitivity/Output Level and Impedance	
Video	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)
Component Video Frequency Response	
	5 Hz–50 MHz (-3 dB)

TUNER SECTION

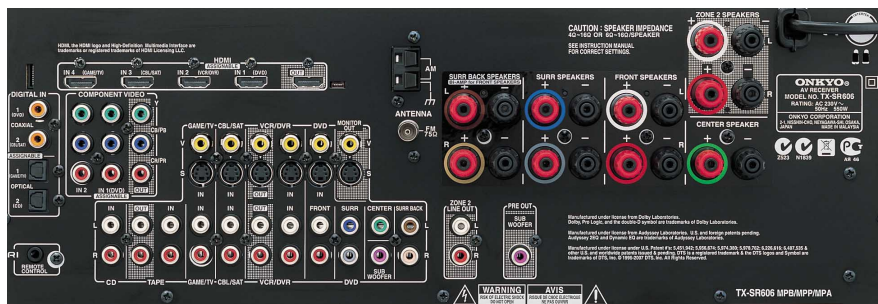
Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	
	40 stations

GENERAL

Power Supply	AC 230 V, 50 Hz
Power Consumption	550 W
Dimensions (W x H x D)	435 x 174.5 x 375 mm
Weight	11.4 kg

■ CARTON

Dimensions (W x H x D)	570 x 297 x 469 mm
Weight	13.8 kg



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IMAGINATIVE SIGHT & SOUND

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