

TX-SR806 THX® Ultra2 Plus™ Certified 7.1-Channel Home Theater Receiver

GOLD **SILVER** **BLACK**



The lesser-used controls are neatly tucked away behind the drop-down panel.



Color availability depends on region.

A Mid-Range Receiver Breaking into High-End Territory with Advanced High-Def Audio and Video Processing

The TX-SR806 occupies a unique position in the Onkyo line-up. We class it as a mid-range A/V receiver. But with its advanced capabilities and THX Ultra2 Plus certification, it's a worthy challenger for high-end status. Built with high-definition entertainment in mind, the TX-SR806 accommodates up to five HDMI™ sources that can handle both 1080p video and studio master-quality surround sound. That's more high-def sources than you'll find on any other Onkyo A/V receiver. If that weren't enough, onboard Faroudja DCDi Cinema™ scales all standard definition sources to 1080p for HDMI output, or to 1080i for component video output. Endowed with the amplification power and dependability expected from an Onkyo A/V receiver, the TX-SR806 stands out as a natural choice for high-performance home theater.

THX Ultra2 Plus Certified with New THX Loudness Plus Technology

THX Ultra2 Plus certification, with THX Loudness Plus, ensures that the TX-SR806 can perform superbly in even the largest of rooms (for example, where the screen-to-seat viewing distance is greater than four meters, and the room size is approximately 85 cubic meters). By achieving THX Ultra2 Plus certification, the TX-SR806 meets the world's most demanding home theater standards for audio quality and performance, and promises to play at reference volume levels with minimal distortion. Also, a new technology, THX® Loudness Plus™, improves how you experience movies at lower volume levels. To counteract the loss or distortion of ambient and bass sounds at lower volumes, THX Loudness Plus automatically adjusts the front-to-back speaker levels and frequency balance. This ensures that you can experience all the details of your movies when listening below the reference level.

Connecting Up to Five Sources for 1080p Video and High-Def Surround Sound via HDMI

With the latest HDMI version and advanced A/V processing capabilities, the TX-SR806 is a powerful control center for all high-definition media, including Blu-ray Disc and HD broadcasts. The TX-SR806 takes up to five components via HDMI—more than you'll find on any other Onkyo receiver—to receive and switch compatible sources and send a 1080p video signal to an HDTV. On the audio side, you have onboard high-definition surround sound codecs—Dolby® TrueHD and DTS-HD™ Master Audio—enabling lossless, studio-master audio quality from Blu-ray Disc. This version of HDMI also supports Onkyo's R1HD system control function and provides greater bandwidth to deal with higher resolutions, 36-bit Deep Color™, and high frame rates.

1080p Video Upscaling with High-Quality Faroudja DCDi Cinema Video Processing

The Faroudja DCDi (Directional Correlational Deinterlacing) Cinema video processor takes the TX-SR806 into a higher class when it comes to video processing. Its power lies in its ability to take all video signals, regardless of the input, and upscale them to 1080p for output via HDMI. Using this processor, the TX-SR806 can also upscale video signals up to 1080i for output via component video. Faroudja video processors are synonymous with quality DCDi Cinema, being one of the more sophisticated processors in the Faroudja range, effectively removes video artifacts during the video signal deinterlacing process.

Correcting Room Acoustics and Loudness with Audyssey MultEQ™ and Audyssey Dynamic EQ™

Audyssey MultEQ is a powerful built-in solution for countering distortion in dedicated home theaters. This technology detects speakers, and then sets levels, delays, and crossovers, as well as measuring room acoustics. Using the TX-SR806's set-up menu, it takes up to six measurements around the listening area and uses high-resolution equalization filters for satellites and the subwoofer. MultEQ covers both the frequency response and the 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 calibration, Audyssey Dynamic EQ solves the problem of deteriorating sound quality at lower volumes. Dynamic EQ selects the best possible frequency response and surround levels moment-by-moment, resulting in an ideal listening experience at any volume level.



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Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry

The TX-SR806's push-pull amplification design uses different transistors on each channel to separately amplify the positive and negative halves of the waveform. Meanwhile, three-stage inverted Darlington circuitry helps reduce distortion at the output stage. The whole design works to realize a highly efficient drive capability.

RIHD (Remote Interactive over HDMI) for System Control*

The TX-SR806 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-SR806 with other leading brand-name devices, including those with Panasonic VIERA Link™ and Toshiba REGZA LINK™ capability, and selected Sharp displays.

*Compatibility depends on model.

Two High-Quality Texas Instruments Digital Signal Processing (DSP) Chips

The TX-SR806 assigns two Texas Instruments (Aureus™) DSP chips to handle the greater processing requirements of Dolby TrueHD and DTS-HD Master Audio, Audyssey MultEQ, and post-processing.

Cirrus Logic Digital-to-Analog Converters (DACs) for Highly Precise Audio

Top-quality Cirrus Logic DACs push analog audio performance to even greater levels. These DACs employ 24-bit conversion and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter and enabling a wide dynamic range.

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

- THX Ultra2 Plus Certified with THX Loudness Plus
- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus Decoding
- HDMI 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; 5 Inputs and 1 Output)
- HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema
- Component Video Upscaling to 1080i with Faroudja DCDi Cinema
- RIHD (Remote Interactive over HDMI) for System Control
- HDMI Switching

- Component Video Switching (2 Inputs and 1 Output)
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- 192 kHz/24-Bit Cirrus Logic DACs for All Channels
- Two TI 32-Bit DSP Chips for Advanced Processing
- Audyssey MultEQ to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic EQ for Loudness Correction
- Bi-Amping Capability for Music and Movie Surround Effects

AUDIO FEATURES

- 230 W/Ch Minimum into 6 Ω, 1 kHz, JEITA (1 Channel Driven); 180 W/Ch Minimum into 6 Ω, 1 kHz, IEC (1 Channel 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
- WRAT (Wide Range Amplifier Technology)
- 6 Digital Inputs (3 Optical [1 Front]/3 Coaxial)
- 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
- Double Bass Function
- Color-Coded 7.1-Multichannel Inputs and Pre Outs
- Independent Crossover Adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz)

OTHER FEATURES

- Powered Zone 2 and Zone 2 Pre-Out for Playback in Another Room (Separate Source)
- Banana Plug-Compatible Speaker Posts
- A/V Synchronization Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Radio Presets
- IntelliVolume
- 5 S-Video Inputs and 2 Outputs
- 5 A/V Inputs and 1 Output
- 2 Audio Inputs and 1 Output
- Phono Input
- RS232, IR and 12V Trigger Connectivity
- Display Dimmer (Normal/Dim/Dimmer)
- Headphone Jack
- Aluminum Front Panel
- Newly Designed GUI for System Set-up
- Compatible with RI (Remote Interactive) Dock for the iPod
- Newly Designed Preprogrammed RI (Remote Interactive) Remote Control with Mode-Key LEDs

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	230 W + 230 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 180 W + 180 W (6 Ω, 1 kHz, 1 channel driven, IEC)
Center	230 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 180 W (6 Ω, 1 kHz, 1 channel driven, IEC)
Surround L/R	230 W + 230 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 180 W + 180 W (6 Ω, 1 kHz, 1 channel driven, IEC)
Surround Back	230 W + 230 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 180 W + 180 W (6 Ω, 1 kHz, 1 channel driven, IEC)
Dynamic Power	
	300 W (3 Ω, 1 ch) 250 W (4 Ω, 1 ch) 150 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)

2.5 mV/47 kΩ (Phono MM)

Output Level and Impedance

200 mV/470 Ω (Rec out)

Phono Overload 70 mV (MM, 1 kHz, 0.5%)

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 110 dB (Line, IHF-A)

80 dB (Phono, IHF-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/Ca, 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 120 V~, 60 Hz

AC 220–240 V~, 50/60 Hz

Power Consumption 740 W

Dimensions (W x H x D) 435 x 194 x 431 mm

Weight 17.8 kg

■ CARTON

Dimensions (W x H x D) 587 x 332 x 543 mm

Weight 22.1 kg



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