

TX-SR706 THX® Select2™ Plus 7.1-Channel Home Theatre Receiver

SILVER BLACK



Full High-Def A/V Home Theatre with 1080p Video Upscaling, New THX® Certification and Signature Amplification

In the mid-range category, credibility is gained through exceptional performance and a high degree of functionality. There's no better example of this than the THX Select2 Plus Certified TX-SR706 A/V receiver. With a certified amplification design and ability to process full high-definition audio and video, the TX-SR706 marks the boundary between cost effectiveness and high-end functionality. Look to some notable firsts at this level: (1) The ability to scale all sources, such as standard DVD, up to 1080p video with the industry-recognized quality of Faroudja DCDi Cinema™; (2) An efficient push-pull amplification design originally created for Onkyo's high-end receivers; and (3) THX® Loudness Plus™ technology to maintain the impact of home theatre even at low volume. To cap off a remarkable home entertainment component, we've also included R1HD (Remote Interactive over HDMI) system control; advanced Audyssey room acoustic correction technologies; and the option of iPod connectivity.

THX Select2 Plus Certified with New THX Loudness Plus Technology

THX Select2 Plus certification, with THX Loudness Plus, ensures the TX-SR706 is ideally suited for a room where the screen-to-seat viewing distance is approximately 3 to 4 meters, and the room size is approximately 56 cubic meters. By achieving THX Select2 Plus certification, the TX-SR706 meets the world's most demanding home theatre 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.

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

With the latest HDMI version and advanced A/V processing capabilities, the TX-SR706 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 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.

HDMI Video Upscaling (Up to 1080p) with Faroudja DCDi Cinema (Directional Correlational Deinterlacing) Technology

The Faroudja DCDi Cinema video processor takes the TX-SR706 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 up to 1080p. You simply select the desired resolution via the TX-SR706's set-up menu to match the resolution of your display. Upscaling takes the video resolution to full HD quality, so it better matches the native resolution of today's high-definition displays. Faroudja video processors are synonymous with quality, and DCDi Cinema 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 theatres. This technology detects speakers, and then sets levels, delays and crossovers, as well as measuring room acoustics. Using the TX-SR706'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-SR706'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-SR706 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-SR706 with other leading brand-name devices, including those with Panasonic VIERA Link™ capability, and selected Sharp displays.

*Compatibility depends on respective model.

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

The TX-SR706 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

You will find top-quality Cirrus Logic DACs included in the TX-SR706 to push analog audio performance to even greater levels. These DACs offer 24-bit conversion and support sampling rates of up to 192 kHz, while displaying low clock jitter sensitivity and offering a 120 dB dynamic range.

Bi-Amping Capability for High-Impact Movies and Music

The TX-SR706'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

- THX Select2 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; 4 Inputs and 1 Output)
- HDMI Video Upscaling up to 1080p with Faroudja DCDI Cinema

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- RIHD (Remote Interactive over HDMI) for System Control
- HDTV-Capable HDMI Switching
- HDTV-Capable (to 720p/1080i) 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

- 175 W/Ch Minimum into 6 Ω, 1 kHz, JEITA (1 Channel Driven); 160 W/Ch Minimum into 6 Ω, 1 kHz, IEC (1 Channel Driven); 100 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
- 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
- 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)
- Double Bass Function

OTHER FEATURES

- Powered Zone 2 and Zone 2 Line-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 (Input), 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	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Center	175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 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) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Surround Back	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Dynamic Power	
	240 W (3 Ω, 1 ch) 210 W (4 Ω, 1 ch) 120 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/470 Ω (Phono)
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	
	106 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
FM/AM Preset Memory	
	40 stations

GENERAL

Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	550 W
Dimensions (W x H x D)	435 x 174 x 377 mm
Weight	12.3 kg

■ CARTON

Dimensions (W x H x D)	570 x 297 x 469 mm
Weight	15.9 kg

