ONKYO
IMAGINATIVE SIGHT & SOUND

TX-SR707 7.2-Channel A/V Surround Home Theatre Receiver

BLACK

Microphone for Audyssey

A Winning Balance of Superb Performance and User-Friendly Features

Building on Onkyo's fine legacy in the popular mid-range AVR category, the TX-SR707 offers a wealth of audio and video features that combine to earn it the prestigious quality assurance of THX® Select2 Plus™. On the connectivity side, six HDMI™ 1.3a inputs handle all your high-def sources, while also transporting video signals upscaled to 1080p via Faroudja DCDi Cinema™. Along with the pristine, lossless audio of Dolby® TrueHD and DTS-HD Master Audio™, the TX-SR707 handles two new surround formats: Audyssey DSX™ and Dolby® Pro Logic® IIz. These formats open up an immersive vertical dimension for games and movies, and bring more flexibility to your speaker set-up. As well as advanced Burr-Brown audio DACs, the TX-SR707 incorporates Audyssey equalisation technologies to ensure an audio balance that fits your room like a glove. Peripheral devices are looked after by a Universal Port, while a customisable remote controller puts you firmly in charge. Pound for pound, the TX-SR707 stands out as a muscular and versatile middleweight contender.

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

Incorporating HDMI version 1.3a, along with advanced processing capabilities, the TX-SR707 makes for a powerful A/V control center. Five rear-side HDMI inputs, along with a convenient front-side one, enable connection of up to six components, including Blu-ray Disc players, gaming consoles, and set-top boxes. The system can then receive and switch high-definition video and output a pristine digital signal to your compatible HDTV. On the audio front, lossless Dolby TrueHD and DTS-HD Master Audio provide a bit-for-bit multichannel soundtrack identical to the studio master track.

**HDMI version 1.3a supports Deep Color™, x.v.Color™, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC.*

Audyssey DSX and Dolby Pro Logic IIz Add New Dimensions to Surround Sound

The TX-SR707 handles two new surround-sound technologies from Audyssey and Dolby that offer exciting new ways to set up the speakers in your 7.1-channel home theatre system. Audyssey DSX lets you incorporate "front wide" speakers, in place of the usual surround back speakers, to expand the width of the soundstage. Set up at a recommended 60° off center, these channels help to produce a more realistic soundstage and a more immersive listening experience. Alternatively, Audyssey DSX can reconfigure the TX-SR707's surround back channels to deliver "front height" channels. These channels carry ambient, non-directional audio that adds a new vertical dimension to your movies and games. Dolby Pro Logic IIz provides a similar front-height speaker option that likewise works to create a more enveloping home theatre experience.

THX Select2 Plus Certified with THX Loudness Plus™ Technology

THX Select2 Plus certification is specified for rooms where the screen-to-seat viewing distance is 3 to 4 meters and the room volume is around 56 cubic meters. To achieve THX Select2 Plus certification, the TX-SR707 must meet the world's most demanding standards for home theatre audio quality and performance, and must play at reference volume levels with minimal distortion. THX Loudness Plus is a volume control technology included in THX Select2 Plus that compensates for the tonal and spatial shifts that occur when the volume level is lowered. It automatically adjusts the levels of ambient sound and bass frequencies, so you can enjoy the true impact of movies, music, and games no matter what volume setting you use.

HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema

When it comes to video processing, the Faroudja DCDi Cinema (Directional Correlational Deinterlacing) video processor offers several advantages. This processor can accept any video signal, regardless of the source resolution, and upscale it to 1080p to match the native resolution of your high-definition display. What's more, DCDi Cinema effectively removes video artifacts such as jagged edges during the video signal deinterlacing process. You get to enjoy smooth progressive scan video images, even for fast-moving sports and action scenes.

TX-SR707 7.2-Channel A/V Surround Home Theatre Receiver

A Suite of Audyssey Technologies for the Ideal Listening Environment

The TX-SR707 incorporates three Audyssey technologies to help create the most suitable listening environment for your home.

(1) Audyssey MultEQ®

Measures and removes distortion caused by room acoustics and calibrates speakers for optimal listening throughout the room.

(2) Audyssey Dynamic Volume™

Lets you enjoy a consistent volume level for all content, while optimising the dynamic range.

(3) Audyssey Dynamic EQ™

Maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels.

Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod or DAB+ Radio Tuner

A proprietary Universal Port located on the rear side of the TX-SR707 lets you connect an optional UP-A1 Dock for the iPod or UP-DT1 DAB+ Radio Tuner. If you have both peripheral devices, they can easily be "daisy chained" via an input on the UP-DT1. 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.

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

High-quality Burr-Brown DACs (PCM1690) work to optimise analog audio performance on the TX-SR707. 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 120 dB dynamic range.

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

The TX-SR707 employs two Texas Instruments DSP chips (the DA830 and DA788) to handle the heavy processing needs of Dolby® TrueHD, DTS-HD Master Audio™, Audyssey MultEQ, and post-processing.

Preprogrammed RI Remote Control with Onscreen Setup and Macro Presets for Four Activities

The TX-SR707's remote controller offers the convenience of controlling a wide range of other devices connected to the receiver. You can select your connected devices from the on-screen list and then pre-program your desired settings for each device. Furthermore, the TX-SR707 lets you set up macro presets for up to four activity modes, which you can control via mode-key LEDs on the remote controller. A single button-press of "My Movie", for example, can simultaneously turn on the receiver, display, and DVD player to your pre-programmed settings and start playing a disc automatically.

ADVANCED FEATURES

- THX® Select2 Plus™ Certified with THX Loudness Plus™
- DTS-HD Master Audio™, DTS-HD High Resolution Audio™, DTS-HD Express, Dolby® TrueHD, Dolby® Digital Plus, Dolby® Pro Logic® IIz Decoding
- HDMI™ Version 1.3a to Support Deep Color™, x.v.Color™, LipSync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Audio and 1080p Video Processing via HDMI (1 Front/5 Rear Inputs and 1 Output)
- HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema™
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Burr-Brown 192 kHz/24-Bit DAC Improves Jitter Performance to Provide Clear Sound
- Two TI 32-Bit DSP Chips for Advanced Processing
- Audyssey DSX™ (Dynamic Surround Expansion) for New Surround Channels
- Audyssey MultEQ® to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic Volume™ to Maintain Optimal Listening Level and Dynamic Range
- Audyssey Dynamic EQ™ for Loudness Correction
- 4 DSP Modes for Gaming: Rock, Sports, Action, and Role Playing Game (RPG)
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod
- Dual Subwoofer Pre Outs

AUDIO & VIDEO FEATURES

- 100 Watts per Channel at 8 Ω, 20 Hz–20 kHz, 0.08 %, 2 Channels Driven, FTC; 160 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, IEC; 175 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology)
- Linear Optimum Gain Volume Circuitry
- DTS-ES™ Discrete/Matrix, DTS Neo:6®, DTS 96/24™, Dolby® Digital EX™ Decoding
- DTS Surround Sensation® Speaker/Headphone Technology
- Music Optimizer™ for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- RIHD (Remote Interactive over HDMI) for System Control
- A-Form Listening Mode Memory
- Double Bass Function
- Direct Mode
- Pure Audio Mode
- Non-Scaling Configuration
- Tone Control (Bass/Treble) for Front L/R Channels
- Front-Panel Audio Input for Portable Devices
- Front-Panel Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- Component Video Switching (2 Inputs and 1 Output)
- 7 Multichannel Pre Outs
- 6 Digital Inputs (3 Optical and 3 Coaxial)
- Banana Plug-Compatible Speaker Posts
- Powered Zone 2 and Zone 2 Line-Out for Playback in Another Room (Separate Source)
- Bi-Amping Capability
- Independent Crossover Adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Random Presets
- Compatible with RI (Remote Interactive) Dock for the iPod
- Preprogrammed and Customizable RI Remote Control with Onscreen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

OTHER FEATURES

- 4 S-Video Inputs and 2 Outputs
- 5 A/V Inputs and 1 Output
- Video Output (Monitor)
- 2 Audio Inputs and 1 Output
- Phono Input
- RS232, IR (Input), and 12 V Trigger (Zone 2) Connectivity
- IntelliVolume
- Headphone Jack
- Onscreen Display (OSD) via HDMI
- Display Dimmer (Normal/Dim/Dimmer)
- Aluminum Front Panel and Volume Knob

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08 %, 2 channels driven, FTC) 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Center	100 W (8 Ω, 20 Hz–20 kHz, 0.08 %, 2 channels driven, FTC) 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround L/R	100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08 %, 2 channels driven, FTC) 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround Back L/R	100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08 %, 2 channels driven, FTC) 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC) 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
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/47 kΩ (Phono MM)
Output Level and Impedance	200 mV/470 kΩ (Rec out)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB
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 and S-Video Y) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) 0.28 Vp–p/75 Ω (S-Video C) 1.0 Vp–p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 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	600 W
Dimensions (W x H x D)	435 x 175 x 379 mm
Weight	12.6 kg

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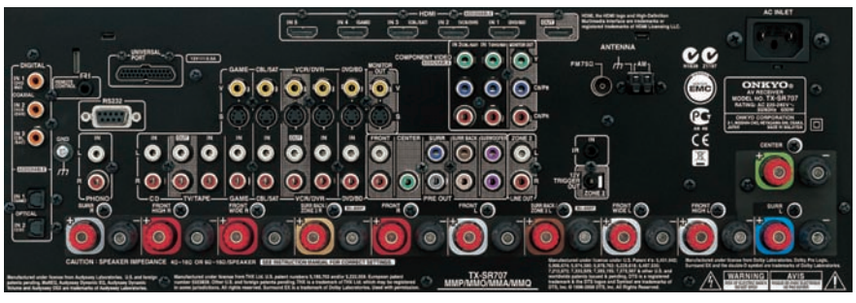
Dimensions (W x H x D)	570 x 298 x 469 mm
Weight	15.6 kg



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NPR No. 09N42 05/09

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