

TX-SR307 5.1-Channel AV Surround Home Theatre Receiver

SILVER BLACK



Microphone for Audyssey



Expanding the Scope of Entry-Level Home Entertainment

In budget-conscious times such as these, Onkyo's track record of value for money is more relevant than ever. Now, with the TX-SR307 home theatre receiver, we bring unprecedented levels of performance and connectivity to the entry level. On the video side, the TX-SR307 can receive up to three 1080p resolution video sources via HDMI—think Blu-ray Disc, PlayStation®, and HD broadcasts—and send pristine video to your compatible high-definition display. When it comes to audio, a suite of Audyssey technologies work to match the sound output to your listening space. The TX-SR307 even makes friendly with your iPod or other MP3 player, via a front-panel input. All those compressed audio files will sound far better thanks to onboard Music Optimizer technology. Rounding out this versatile system are four new gaming modes that allow you to customize the audio to your chosen game type.

HDMI Pass-Thru* for Connecting up to Three Video Sources for Output to a High-Definition Display

The TX-SR307 takes up to three HDMI video inputs from sources such as Blu-ray Disc players, DVD players, gaming consoles, and set-top boxes, and delivers the output to a compatible high-definition display. Video is passed in its native resolution—right up to 1080p—from Blu-ray Disc, PlayStation games, or HD broadcasts.

*A separate audio connection is necessary to process multichannel audio.

A Suite of Audyssey Technologies for the Ideal Listening Environment

The TX-SR307 has three Audyssey technologies to help create the most suitable listening environment for your home.

(1) Audyssey 2EQ™ for Room Acoustic Correction

The TX-SR307 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.

(2) Audyssey Dynamic Volume™

This technology allows you to set the volume level that you want and keep it there, without having to constantly adjust it. By anticipating sudden spikes and dips in the audio soundtrack and compensating for them in real time, Audyssey Dynamic Volume ensures consistent volume levels, regardless of the content you're enjoying. Thanks to Audyssey Dynamic Volume, quiet dialogue is easier to pick up, loud passages retain their impact, and commercials are less intrusive.

(3) Audyssey Dynamic EQ™ for Loudness Correction

In professional sound studios, music and movies are recorded at reference levels far louder than what is typical for home listening. As a result, when you play audio content at a low volume on a standard home theatre receiver, the bass disappears, voices change in timbre, and the surround soundstage loses definition. To counteract this audio deterioration, Audyssey Dynamic EQ continuously adjusts frequency response and surround levels to produce the ideal balance for a given volume level.

Four Game Modes for More Thrilling Action

A new addition to Onkyo home theatre, these four gaming modes create an experience with more realism and impact. You can select from Rock, Sports, Action, or Role Playing Game (RPG) to match your gaming content.



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Front-Panel Audio Input for Portable Devices

You can connect an iPod or other MP3 player to the A/V receiver's front panel for playback. Your player's compressed digital music files receive a quality boost thanks to the TX-SR307's Music Optimizer technology.

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 the 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

- 3 HDMI™ Inputs and 1 Output for Video
- HDMI Pass-Thru* (Version 1.3 Compatible with 1080p, Deep Color™, and x.v.Color™)
- Audyssey 2EQ™ 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)
- Front-Panel Audio Input for Portable Devices
- Music Optimizer for Compressed Digital Music Files

*A separate audio connection is necessary to process multichannel audio.

AUDIO & VIDEO FEATURES

- 100 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, IEC
- DTS®, DTS Neo:6® 5.1, DTS 96/24™, Dolby® Digital, Dolby® Pro Logic® II
- DTS Surround Sensation® Speaker Technology
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Optimum Gain Volume Control Circuitry
- CinemaFILTER™
- A-Form Listening Mode Memory
- 192 kHz/24-Bit DACs for All Channels
- Advanced 32-Bit Processing DSP Chip
- Theater-Dimensional Virtual Surround Function
- Double Bass Function
- Direct Mode
- 3 Digital Inputs (2 Optical and 1 Coaxial)
- Speaker A/B Drive
- Banana Plug-Compatible Speaker Posts for Front L/R Channels (Speaker A)
- Color-Coded Speaker Terminals
- Subwoofer Pre Out
- Crossover Adjustment (40/50/60/80/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 100 ms in 20 ms Steps)
- Late Night Mode (High/Low/Off)
- 40 FM/AM Random Presets
- RDS (PS/RT/PTY/TP)
- Compatible with RI (Remote Interactive) Dock for the iPod
- Front-Panel Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- Full-Function RI (Remote Interactive) Remote Control

OTHER FEATURES

- Non-Scaling Configuration
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- Tone Control (Bass/Treble) for Front L/R Channels
- 4 A/V Inputs and 1 Output
- Video Output (Monitor)
- 2 Audio Inputs and 1 Output
- Headphone Jack
- Sleep Timer (via Remote)
- Battery-Free Memory Backup

SPECIFICATIONS

Amplifier Section

Power Output	
Front L/R	100 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)
Center	100 W (6 Ω, 1 kHz, 1 channel driven, IEC)
Surround L/R	100 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC)

Dynamic Power	
	160 W (3 Ω, 1 ch)
	125 W (4 Ω, 1 ch)
	85 W (8 Ω, 1 ch)

THD (Total Harmonic Distortion)	
	0.08% (1 W Output)

Damping Factor	60 Front, 1 kHz, 8 Ω
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Input Sensitivity and Impedance	
	200 mV/47 kΩ (Line)

Output Level and Impedance	
	200 mV/470 Ω (Rec out)

Frequency Response	20 Hz–50 kHz/+1 dB, -3 dB
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Tone Control	
	±10 dB, 50 Hz (Bass)
	±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio	100 dB (Line, IHF-A)
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Speaker Impedance	6 Ω–16 Ω
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Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component)
	0.7 Vp-p/75 Ω (Component Ps/Cs, Ph/Cs)
	1.0 Vp-p/75 Ω (Composite)

Component Video Frequency Response	
	5 Hz–50 MHz, -3 dB

Tuner Section

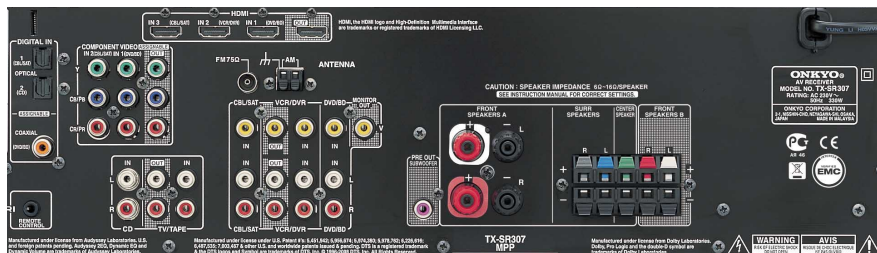
Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz
FM/AM Preset Memory	40 stations

General

Power Supply	AC 230 V~, 50 Hz
Power Consumption	330 W
Dimensions (W x H x D)	435 x 151.5 x 329 mm
Weight	8.0 kg

■ CARTON

Dimensions (W x H x D)	537 x 268 x 416 mm
Weight	10.5 kg



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IMAGINATIVE SIGHT & SOUND

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