

# TX-SR805 7.1-Channel Home Theater Receiver

**GOLD**



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



## Taking Control of a New Generation of High-Definition A/V Possibilities

In terms of the evolution of home entertainment, recent years have seen a quantum leap. It's a formidable progression when you think of 1080p high-definition video and broadcasts; studio-quality, lossless surround sound; and spectacular gaming with stunning motion graphics. Bundling all this potential, the TX-SR805 A/V surround receiver has been built to provide comprehensive control over all movies, music, broadcasts and gaming. But that barely begins to describe the TX-SR805's potential. Augmented by its THX™ Ultra2™ certification, this receiver goes even further by bringing you sophisticated room-correction technology, multi-zone capabilities, powerful bi-amping and "dual push-pull" amplification. The TX-SR805 provides a reference point for a new generation of high-definition A/V receivers.

### THX Ultra2 Certification for a Better Class of Home Theater

From its development stage to its final conception, the TX-SR805 has been engineered to comply with the most stringent requirements of THX Ultra2. Ultra2 certification means that the TX-SR805 is ideally suited to a home theater where the viewing distance from screen to seat is greater than 12 feet and the room volume is greater than 3000 cubic feet. It also means that the TX-SR805 is able to produce exceptional sound quality for movies through THX Ultra2 Cinema, and truly uplifting music through THX MusicMode. The TX-SR805 also features THX Games Mode, a post-processing audio technology that revolutionizes the home video game experience by immersing the player in the action. Completing the package, two THX processing technologies, Boundary Gain Compression (BGC) and Advanced Speaker Array (ASA), optimize sound dynamics for your listening environment.

### Processing 1080p Video and High Resolution Audio via High Definition Multimedia Interface (HDMI v.1.3a)

With three HDMI inputs, you can receive and switch the latest hi-definition components—Blu-ray Disc and HD DVD players, satellite and cable boxes, media centers, and gaming consoles—for a pure, one-cable digital connection to an HDTV. HDMI also delivers the latest high-definition audio format—Dolby® TrueHD, DTS-HD® Master Audio, Dolby® Digital Plus and DTS-HD® High Resolution Audio—to be processed by the TX-SR805's onboard decoders. These new formats enable unprecedented quality including bit-for-bit reproduction (TrueHD and Master Audio). Also, HDMI 1.3a gives you greater bandwidth to deal with higher resolutions, 36-bit Deep Color™ and high frame rates.

### HDMI and Component Video Upconversion for a Single Output to High-Resolution Displays

The TX-SR805'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. It can also upconvert analog signals to HDMI so that all connected video sources can be output via one cable. And if your display doesn't have HDMI capability, you can use the HD-quality component video connections, which will also cover your S-Video and composite video sources. To support progressive scan, the TX-SR805 features a deinterlacing chip with Faroudja DCDi Edge™ (Directional Correlational Deinterlacing). This technology helps to effectively eliminate video artifacts from HDTV images.

### Audyssey MultEQ® XT for Powerful Room Acoustics Correction

MultEQ XT is Audyssey's most 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 receiver interface, it takes up to 8 measurements around the listening area and uses high-resolution equalization filters for satellites and subwoofers. MultEQ XT covers 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.



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## Drawing on Dual Push-Pull Amplification and 3-Stage Inverted Darlington Circuitry

The TX-SR805 is based on "dual push-pull" amplification. The receiver's transistors alternately "push" and "pull" the current. In pairs, one output device (i.e. a transistor) will amplify the positive half of the waveform, while another output device will amplify the negative half of the waveform. Push-pull amplification has the advantage of efficiency, but can be affected by occasional instances of distortion. Onkyo has countered this by including a 3-stage inverted Darlington circuit to significantly reduce distortion.

## Playback of Different A/V Sources in Three Different Locations in the Home

Powered Zone 2 and Zone 2/Zone 3 pre outs enable the TX-SR805 to bring multi-zone entertainment to your home. You can enjoy surround sound entertainment in the main room while you play back a different stereo source in a second and/or third zone equipped with amplifier/speakers or an amplifier, respectively. You can control volume levels and balance in both zones via the TX-SR805. Also, bass and treble can be controlled in Zone 2.

## Bi-Amping Capability for High-Impact Movies and Music

The TX-SR805's surround back speaker channels provide the ambience and effects for movies. They can also be used with the front left and right channels to provide two separate amplification channels for compatible bi-amping speakers (with two sets of input terminals). In effect, bi-amping gives a more powerful, dynamic soundfield for two-channel music and movie sound effects.

## High-Quality Burr-Brown 192 kHz/24-Bit DACs and Texas Instruments DSP Chips

Burr-Brown DACs use an advanced Texas Instruments DAC architecture (PCM1796) to achieve excellent dynamic performance and improved tolerance to clock jitter. For incoming audio signals, these DACs provide easy interfacing with audio DSP and decoder chips. The TX-SR805 also uses three DSP chips in the audio processing chain. These chips support the latest and most innovative audio signal processing features.

## Neural-THX® Surround Decoder for Broadcasts and Gaming

Neural-THX Surround technology enables broadcast content to be encoded into 5.1 channels during a live mix or post-session. It can then be transmitted in a two-channel format to the home, and decoded up to 7.1 channels by the TX-SR805's onboard decoder. Neural-THX Surround will also enable 7.1-channel support for gaming, with 360-degree soundtracks that pull gamers closer to the action.

## ADVANCED FEATURES

- THX Ultra2 Certified (with THX Processing)
- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus Decoding
- HDMI (v. 1.3a) Audio and Video Processing
- HDTV-Capable HDMI (3 Inputs and 1 Output) and Component Video (100 MHz) Switching (3 Inputs and 1 Output)
- HDMI and Component Video Upconversion
- 192 kHz/24-Bit Burr Brown DACs for All Channels
- Three TI 32-Bit DSP Chips for Advanced Processing
- Bi-Amping Capability for Music and Movie Sound Effects
- Audyssey MultEQ XT to Correct Room Acoustic Problems and to Calibrate Speakers
- Powered Zone 2 and Zone 2/Zone 3 Pre Outs with Volume, Balance and Bass/Treble (Zone 2 Only) Controls
- Neural-THX Surround Technology for Gaming, Movies and Broadcasting
- Onkyo RIHD for System Control
- Compatible with RI (Remote Interactive) Dock for the iPod

## 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
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology)
- 6 Digital Inputs (3 Optical/3 Coaxial) and 1 Optical Output
- A-Form Listening Mode Memory
- Linear Optimum Gain Volume Circuitry
- Non-Scaling Configuration
- Tone Control (Bass/Treble) for All 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

## VIDEO FEATURES

- 6 S-Video Inputs and 2 Outputs
- 6 Composite Video Inputs and 2 Outputs
- Front Panel Auxiliary Input (for Camcorders, Game Consoles, etc.)

## OTHER FEATURES

- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Deinterlacer with Faroudja DCDi Edge™ (Directional Correlational Deinterlacing) Technology
- Pure Audio Mode
- A/V Synchronization Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Radio Presets
- Onscreen Display
- RS232 Port
- IR Input and Output
- 12V Trigger
- 6 A/V Inputs and 1 Output
- 2 Audio Inputs and 1 Output
- Phono Input
- Direct Mode
- IntelliVolume
- Late Night Mode (High/Low/Off)
- Headphone Jack
- Aluminum Front Panel
- Preprogrammed RI (Remote Interactive) Learning Remote Control with Macro and Mode-Key LEDs

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
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 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)
<b>Dynamic Power</b>	
	300 W (3 Ω, 1 ch) 250 W (4 Ω, 1 ch) 150 W (8 Ω, 1 ch)
<b>THD (Total Harmonic Distortion)</b>	
	0.05% (Rated power)
<b>Damping Factor</b>	
	60 (Front, 1 kHz, 8 Ω)
<b>Input Sensitivity and Impedance</b>	
	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
<b>Output Level and Impedance</b>	
	200 mV/470 Ω (Rec out)
<b>Phono Overload</b>	70 mV (MM, 1 kHz, 0.5%)
<b>Frequency Response</b>	5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)
<b>Tone Control</b>	±10 dB, 20 Hz (Bass) ±10 dB, 20 kHz (Treble)
<b>Signal-to-Noise Ratio</b>	110 dB (Line, IHF-A)
<b>Speaker Impedance</b>	4 Ω–16 Ω or 6 Ω–16 Ω

### VIDEO SECTION

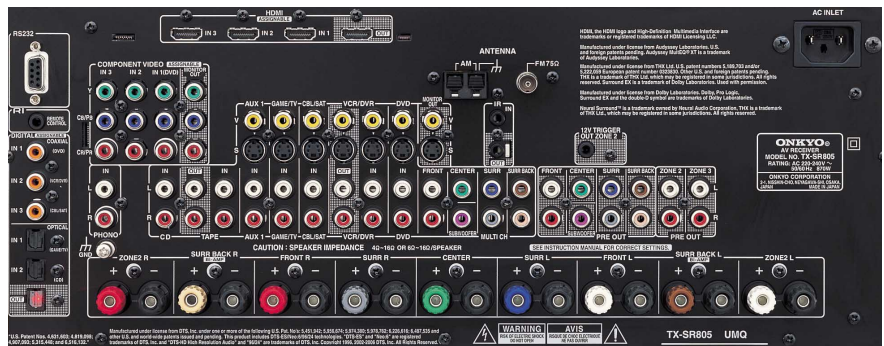
<b>Input Sensitivity/Output Level and Impedance</b>	
Video	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Ca, Pr/Ck) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)
<b>Component Video Frequency Response</b>	
	5 Hz–100 MHz (-3 dB)

### TUNER SECTION

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

### GENERAL

<b>Power Supply</b>	
	AC 120 V, 50/60 Hz AC 220–240 V, 50/60 Hz
<b>Power Consumption</b>	
	870 W
<b>Dimensions (W x H x D)</b>	
	435 x 194 x 458.5 mm
<b>Weight</b>	
	23.3 kg
<b>■ CARTON</b>	
<b>Dimensions (W x H x D)</b>	
	587 x 332 x 571 mm
<b>Weight</b>	
	27.3 kg



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