

TX-SR875 7.1-Channel Home Theater Receiver

SILVER BLACK



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



A Fusion of Rock-Solid Power and Hi-Def Precision

Exceeding even the highest expectations, the TX-SR875 A/V surround sound receiver deserves all the accolades it gets. The foundations of the TX-SR875 are its isolated power amplifier block (which supports a dual push-pull amplification design) and preamplifier. You'll also find a blend of onboard technologies to prime your home theater for high-definition playback. You're looking at the first HDMI-equipped Onkyo receiver to take up to four components with 1080p video and master-quality audio capabilities. All other signals, from 480i on up, can be upscalled to 1080p via HQV Reon-VX. Also, THX, Audyssey and Texas Instruments lend the very best of their expertise to round out this high-quality control center.

HQV Reon-VX Chip for High-Performance Video Processing (with 1080p Upscaling)

Representing some of the most sophisticated video processing ever seen in broadcasting and home theater components, the HQV Reon-VX chipset gives the TX-SR875 a powerful edge. It will scale all video signals to 1080p without the visible inconsistencies found in less competent scalars. It also provides the ultimate support for standard- and high-definition deinterlacing; for filtering of jaggies and artifacts; and for the reduction of random, "mosquito" and block (codec) noise. HQV Reon-VX enables color region enhancement and the rendering of more than one billion colors.

Processing 1080p Video, Dolby® TrueHD & DTS®-HD Master Audio via High Definition Multimedia Interface (HDMI v. 1.3a)

With four HDMI inputs, you can receive and switch the latest high-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 formats—Dolby TrueHD, DTS-HD Master Audio, Dolby® Digital Plus and DTS®-HD High Resolution Audio—for processing by the TX-SR875's onboard decoders. These new formats enable unprecedented quality, including bit-for-bit signal reproduction (TrueHD and Master Audio). Furthermore, HDMI 1.3a gives you greater bandwidth to deal with higher resolutions, 36-bit Deep Color™ and high frame rates.

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

From its development stage to its final conception, the TX-SR875 has been engineered to comply with the most stringent requirements of THX Ultra2. Ultra2 certification means that the TX-SR875 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-SR875 is able to produce exceptional sound quality for movies through THX Ultra2 Cinema, and truly uplifting music through THX MusicMode. The TX-SR875 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.

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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Newly Designed Construction with Dual Push-Pull Amplification

The TX-SR875 has been newly designed so that the power amplifier block and the pre-amplifier are perfectly isolated. The power amplifier block uses dual push-pull amplification, whereby pairs of transistors in the receiver alternately push and pull the current. One output device will amplify the positive half of the waveform and 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 three-stage inverted Darlington circuit to significantly reduce distortion.

Vector Linear Shaping Circuitry (VLSC) and Advanced 192 kHz/24-Bit DACs for All Channels

Ensuring that digital audio signals are converted effectively to analog is a crucial factor in the overall sound quality. Onkyo uses its own digital-to-analog conversion circuitry—VLSC—to mitigate signal noise. Integral to the circuitry are five Burr-Brown 192 kHz/24-bit audio DACs (PCM1796), for use with all channels and for non-scaling configuration circuitry. These DACs use an advanced Texas Instruments architecture to achieve excellent dynamic performance (with a dynamic range of 123 dB) and to improve tolerance to clock jitter.

Playback of Different A/V Sources (Including Video) in Up to Three Different Locations

The TX-SR875 gives you the option of playing back a separate two-channel source with video images (such as a movie or TV broadcast) at the same time as playing back a 5.1-channel source in the main room. Alternatively, you can use the Zone 2 and Zone 3 pre outs to connect to amplifiers in two other rooms. With the latter option, all 7.1 channels can be kept active in the main room. The TX-SR875's remote control lets you adjust volume levels and balance in both zones, as well as bass and treble in Zone 2.

Bi-Amping and BTL (Bridged Transless) Capability for Speakers

Compatible speakers can be bi-amped (from the surround back left and right channels) for separate tweeter and woofer inputs. You can also use the same back channels to provide twice the power for compatible front speakers. If you use bi-amping, it's still possible to have a 5.1 surround configuration. With bridging, a 2.1 configuration (with powered subwoofer) is possible.

RIHD (Remote Interactive Over HDMI) for System Control

Compatible with HDMI version 1.3a, Onkyo's A/V receivers offer integrated system control with selected HDMI-compatible high-definition displays, DVD recorders and Blu-ray Disc players. With one remote control, you can control certain key functions, including Standby/Volume Command and Direct Change. RIHD lets you seamlessly integrate your Onkyo receiver with other leading brand-name devices, starting with Panasonic's VIERA Link range.

ADVANCED FEATURES

- THX Ultra2 Certified (with THX Processing)
- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus Decoding
- VLSC (Vector Linear Shaping Circuitry) for All Channels
- HQV Reon-VX Video Processing
- HDMI (v. 1.3a) Audio and Video Processing (4 Inputs and 1 Output)
- HDTV-Capable HDMI Switching
- HDTV-Capable (100 MHz) Component Video Switching (3 Inputs and 1 Output)
- HDMI Upscaling and Upconversion
- Component Video Upconversion
- Burr-Brown 192 kHz/24-Bit Audio DACs (PCM1796) for All Channels
- Three TI (Aureus™) 32-Bit DSP Chips for Advanced Processing
- Bi-Amping and BTL (Bridged Transless) Capability for Music and Movie Sound Effects

- Audyssey MultEQ XT to Correct Room Acoustic Problems and to Calibrate Speakers
- Powered Zone 2 (Audio and Video); Zone 2 and Zone 3 Pre Outs; Independent Control for Volume, Balance (Zone 2 and Zone 3) and Bass/Treble (Zone 2 Only)
- Neural-THX® Surround Technology for Gaming, Movies and Broadcasting
- Onkyo RIHD (Remote Interactive Over HDMI) for System Control (Works with Certain Key Functions of Panasonic's VIERA Link)
- Compatible with RI (Remote Interactive) Dock for the iPod

AUDIO FEATURES

- 200 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
- Pure Audio Mode
- A/V Synchronization Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Radio Presets
- RDS (PS/RT/PTY/TP)
- Onscreen Display
- RS232 Port
- IR Input and Output
- 12 V 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 Macros and Mode-Key LEDs

SPECIFICATIONS

AMPLIFIER SECTION

| | |
|--|---|
| Power Output | |
| Front L/R | 200 W + 200 W (6 Ω, 1 kHz, 1 channel driven, IEC) |
| Center | 200 W (6 Ω, 1 kHz, 1 channel driven, IEC) |
| Surround L/R | 200 W + 200 W (6 Ω, 1 kHz, 1 channel driven, IEC) |
| Surround Back L/R | 200 W + 200 W (6 Ω, 1 kHz, 1 channel driven, IEC) |
| Dynamic Power | |
| | 320 W (3 Ω, 1 ch) |
| | 270 W (4 Ω, 1 ch) |
| | 160 W (6 Ω, 1 ch) |
| THD (Total Harmonic Distortion) | |
| | 0.05% (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, 20 kHz (Bass) |
| | ±10 dB, 20 kHz (Treble) |
| Signal-to-Noise Ratio | 110 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 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 Vp-p/75 Ω (Composite) |
| Component Video Frequency Response | |
| | 5 Hz–100 MHz (-3 dB) |

TUNER SECTION

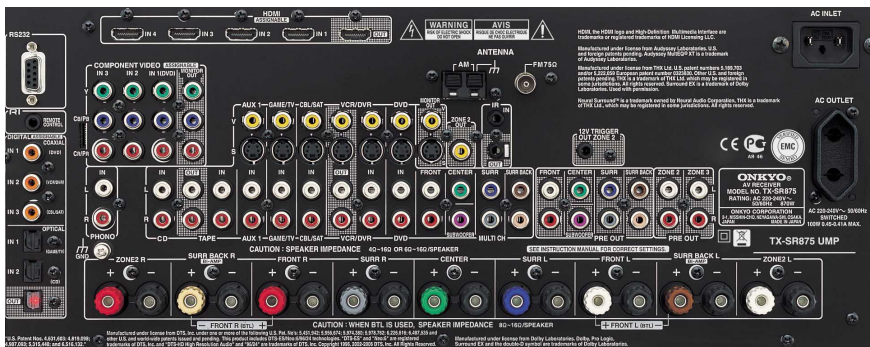
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|-------------------------------|-------------------|
| Tuning Frequency Range | |
| FM | 87.5 MHz–108 MHz |
| AM | 522 kHz–1,611 kHz |
| | 530 kHz–1,710 kHz |
| FM/AM Preset Memory | 40 stations |

GENERAL

| | |
|-------------------------------|------------------------|
| Power Supply | AC 220–240 V, 50/60 Hz |
| Power Consumption | 870 W |
| Dimensions (W x H x D) | 435 x 194 x 458.5 mm |
| Weight | 23.3 kg |

■ CARTON

| | |
|-------------------------------|--------------------|
| Dimensions (W x H x D) | 587 x 332 x 571 mm |
| Weight | 28.5 kg |



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