

TX-SR804

THX™ Select2™ CERTIFIED 7.1-CHANNEL A/V SURROUND HOME THEATER RECEIVER

ONKYO
IMAGINATIVE SIGHT & SOUND



Available in Black or Silver

Remote Control

Driving Home Theater with Pinpoint Accuracy, Potent Power and Multi-Entertainment Options

To create an A/V home theater receiver of exceptional quality, the challenge lies in incorporating the delicate processing circuits and amplifier components into the same chassis. When they both draw on the same power source, the amplifier dominates at peak moments. In a good design, it all works smoothly—as with the THX Select2 certified TX-SR804 7.1-channel A/V surround home theater receiver. You have video switching and upconversion through HDMI (version 1.1) and component video enabling an effortless, high-bandwidth transfer of video and audio signals to the latest HDTV displays. Also, the inclusion of a Time Base Corrector (TBC) will effectively prevent any picture deterioration caused by timing inaccuracies. With numerous other features that help the TX-SR804 to stamp its class—Wide Range Amplifier Technology (WRAT); Vector Liner Shaping Circuitry (VLSC); multizone playback with a 12 V trigger; a wide-ranging crossover adjustment; RS232 & IR connectivity; as well as XM® radio and iPod® integration capabilities—this receiver stands out for its seamless, powerful functionality.

HDMI and Component Video Upconversion for HDTV Connectivity with Video Switching Capabilities

As the most advanced interface for transporting both uncompressed high-definition (HD) video and uncompressed multi-channel audio in all HD formats including 720p, 1080i and 1080p, HDMI has become the most desirable connectivity option for home entertainment. This is superbly demonstrated with the TX-SR804. Its two HDMI (version 1.1) inputs will receive pristine video from HDMI-enabled components like DVD players or set-top boxes for a single-cable output to a display device with an HDMI or DVI connection. If that's not enough, it'll also upconvert any other source connected by component, S-Video or composite connections. In effect, you have the power to accommodate all your entertainment needs, from digital recording to spectacular gaming. And if your HDTV doesn't have HDMI capability, or you have yet to take the plunge, you can use the HD-quality component video connections (also with upconversion) to get the best video images available.

THX™ Select2™ Certified and THX™ Surround EX™

With THX Select2 certification, the TX-SR804 demonstrates that it has met the rigorous design and performance standards set by THX. For the end user, it enhances the overall system's ability to accurately present movies the way they were mixed by the filmmaker on the dubbing stage and its additional THX listening modes enhance playback performance of music, movies and video games. Furthermore, its Adaptive Speaker Array (ASA) technology optimizes playback of multi-channel movies, music and video games. THX Select2 also includes the THX Surround EX decoder, which enables sound mixers to encircle the audience with 360-degree pans and more realistic fly-over and ambient sound effects.

Vector Linear Shaping Circuitry (VLSC) for All Channels

The TX-SR804 incorporates Onkyo's VLSC, which employs a unique D/A conversion circuit to mitigate the effect of signal noise. As noise is magnified during the conversion process, even minimal amounts of noise can adversely affect audio quality. With VLSC, data is converted between the sampling points and these discrete sampling points are joined with analog vectors in real-time to produce a smooth output wave form. The result—a noiseless, smooth analog signal based on the digital source.

Access to the Most Advanced Surround Sound Formats

The TX-SR804 has the onboard codecs—Dolby Digital EX, Dolby Pro Logic IIx, DTS-ES, DTS 96/24 and DTS Neo:6—to effectively reproduce stereo and multichannel sources in enveloping 6.1 or 7.1 surround sound. By connecting an HD-DVD or Blu-ray Disc player with 5.1- or 7.1-line level outputs to the TX-SR804's 7.1-multichannel inputs, you will be able to enjoy the full potential of high-definition audio formats like Dolby Digital Plus, Dolby True HD, DTS-HD and Master Audio.

Multiroom Playback Capabilities through Powered Zone 2 with 12 V Trigger

Powered Zone 2 gives you the option of different sources throughout your home. With the Powered Zone 2 function, you can enjoy one input source in the main room and a different source in another room through two different connection methods: using a receiver/integrated amp in Zone 2 (automatically activated by a 12 V trigger) or a pair of speakers in Zone 2. In the former method, you can enjoy 7.1 surround sound in the main room and play a different stereo source in Zone 2. With the latter method, you can use 5.1 surround sound in the main room and play a different stereo source in Zone 2.

Independent Crossover Adjustment for Bass Management

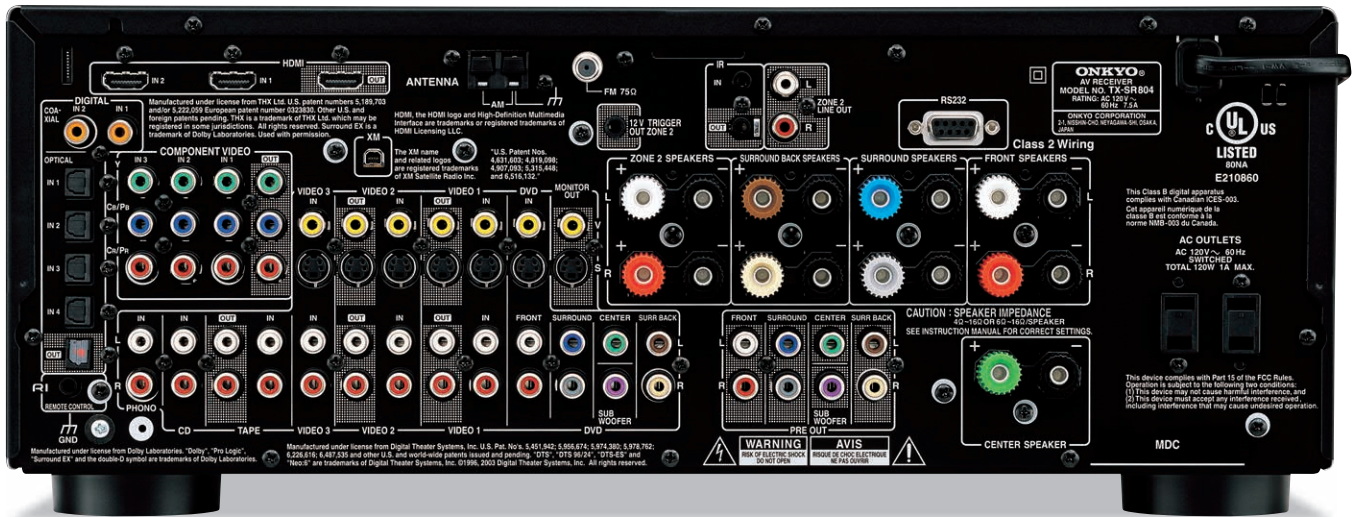
With the TX-SR804's crossover adjustment for bass management, you can independently set the frequency of your front, center, surround and surround back speakers at 40/60/70/80/90/100/120/150/200 Hz giving you greater scope to match different speakers and subwoofers to your system.

Integrating the iPod and XM Radio into Your System

Connecting the TX-SR804 with Onkyo's Remote Interactive Dock enables you to integrate an iPod into your entertainment system. The Dock also enables on-screen menus, remote controllability, recharging capacity, and even photo/video playback. And with an XM Connect and Play port on the TX-SR804's rear panel, you can access XM Radio's 170 commercial-free channels of news, sport, talk, entertainment, as well as traffic and weather. You can take advantage of XM Passport™, a portable subscription device that can be easily connected to other XM Ready devices (like car audio and other portable devices).

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THX™ Select2™ CERTIFIED 7.1-CHANNEL A/V SURROUND HOME THEATER RECEIVER



Amplifier Features

- 105 Watts per channel minimum into 8 ohms, at 20 Hz-20 kHz, FTC
- Vector Linear Shaping Circuitry (VLSC) for all channels
- Wide Range Amplifier Technology (WRAT)
- Extended frequency response (5 Hz to 100 kHz)
- Reduced NFB (Negative Feedback)
- Full bandwidth power to all 7 main channels
- Absolute ground plate
- H.C.P.S.—massive high current power supply
- Discrete power amplifier circuitry for all channels
- High-current, low-impedance 6 ohm drive for all channels
- Auto-protection circuitry
- High-grade extruded-aluminum heatsink
- Low Frequency Effect (LFE) level control
- Thick bus bars

Audio/Video Features

- THX™ Select2™ certified
- THX Surround EX, DTS, DTS 96/24, DTS-ES Discrete/Matrix, DTS Neo:6 decoding
- Dolby Digital, Dolby Digital EX, Dolby Pro Logic IIx decoding
- 192 kHz/24-bit audio DACs for all channels
- HDMI and component video upconversion with Time Base Corrector (TBC)
- Composite to S-Video upconversion

- HDTV-capable HDMI and component video (50 MHz) switching
- Optimum Gain Volume Circuitry
- Digital upsampling
- Non-scaling configuration
- Powered Zone 2/Zone 2 lineout with 12 V trigger
- A-form listening mode memory
- Independent crossover adjustment for bass management for F/C/S/SB (40/60/70/80/90/100/120/150/200 Hz)
- Advanced 32-bit processing DSP chip
- 2 HDMI (version 1.1) inputs and 1 output
- 3 component video inputs and 1 output
- 5 S-Video inputs and 3 outputs
- 5 composite video inputs and 3 outputs
- 2 audio inputs and 1 output
- Phono input
- 7 digital inputs (5 optical/2 coaxial) and 1 optical output
- Color-coded 7.1-multichannel inputs (ready for Dolby Digital and DTS formats for high-definition discs) and pre outs
- Heavy-duty, color-coded dual banana plug-compatible speaker posts
- Front panel audio, video, S-Video, optical inputs
- Dedicated line-level subwoofer pre out
- Pure audio mode
- Direct mode
- Automatic signal detection
- Late night mode (high/low/off)
- Tone control (bass/treble) for front L/R channels
- Double Bass function
- AV synchronization function (up to 250 ms)

FM/AM/XM Tuner and Other Performance Features

- XM Satellite Radio through XM Connect and Play/XM Passport™
- Channel & Category search modes/Direct tuning for XM Satellite Radio
- 40 FM/AM/XM random presets
- Character input (Tuner presets, input selector)
- Outstanding selectivity and sensitivity
- IntelliVolume
- On-screen display control
- 3-mode display dimmer (bright/normal/low)
- Absolute volume display
- Calibration through Auto Speaker Set-up with Microphone
- Battery-free memory backup
- Brushed aluminum front panel
- Headphone jack (1/4")
- Heavy-duty power cord
- Individual input selectors for each source
- RS232 port
- IR input and output
- Blue illuminated volume control
- Sleep timer via remote
- Compatible with Remote Interactive Dock for the iPod®
- Backlit/Preprogrammed RI (Remote Interactive) learning remote control with 3 macros and mode-key LEDs



Silver model

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SPECIFICATIONS

AMPLIFIER SECTION

Power Output

Front L/R	105 W + 105 W (8 ohms, 20 Hz-20 kHz, FTC)
Center	.....	105 W (8 ohms, 20 Hz-20 kHz, FTC)
Surround L/R	.....	105 W + 105 W (8 ohms, 20 Hz-20 kHz, FTC)
Surround Back L/R	.....	105 W + 105 W (8 ohms, 20 Hz-20 kHz, FTC)

Dynamic Power

.....	240 W + 240 W (3 ohms, Front)
.....	180 W + 180 W (4 ohms, Front)
.....	125 W + 125 W (8 ohms, Front)

THD (Total Harmonic Distortion)

.....	0.08 % (Rated Power)
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Damping Factor

.....	60 (Front, 1 kHz, 8 ohms)
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Input Sensitivity and Impedance

Line	200 mV/47 k-ohms
Phono MM	2.5 mV/47 k-ohms

Output Level and Impedance

Rec out	200 mV/470 ohms (Tape, Video 1-2)
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Frequency Response

.....	5 Hz-100 kHz + 1 dB, -3 dB (Line)
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Tone Control

.....	± 10 dB, 50 Hz (BASS)
.....	± 10 dB, 20 kHz (TREBLE)

Signal-to-Noise Ratio

.....	106 dB (Line in, IHF-A)
.....	80 dB (Phono in, IHF-A)

Speaker Impedance

.....	4 ohms/6 ohms-16 ohms
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VIDEO SECTION

Input Sensitivity/Output Level and Impedance

Video	1 Vp-p/75 ohms (Component and S-Video Y)
.....	0.7 Vp-p/75 ohms (Component Pb/Cb, Pr/Cr)	
.....	0.28 Vp-p/75 ohms (S-Video C)	
.....	1 Vp-p/75 ohms (Composite)	

Component Video Frequency Response

.....	5 Hz-50 MHz
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TUNER SECTION

(FM)

Tuning Frequency Range	87.5 MHz-107.9 MHz
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Usable Sensitivity

Stereo	22.2 dBf, 3.5 µV (75 ohms IHF)
Mono	15.2 dBf, 1.6 µV (75 ohms IHF)

Signal-to-Noise Ratio

Stereo	.....	67 dB (IHF-A)
Mono	.....	73 dB (IHF-A)

Total Harmonic Distortion

Stereo	0.5 % (1 kHz)
Mono	0.3 % (1 kHz)

Stereo Separation

.....	40 dB (1 kHz)
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(AM)

Tuning Frequency Range	530 kHz-1,710 kHz
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Usable Sensitivity

.....	300 µV/m
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Signal-to-Noise Ratio

.....	40 dB
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Total Harmonic Distortion

.....	0.7 %
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GENERAL

Power Supply	AC 120 V, 60 Hz
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Power Consumption

.....	7.5 A
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Stand-by Power Consumption

.....	0.2 W
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Dimensions (W x H x D)

.....	17-1/8" x 6-13/16" x 16-15/16"
.....	435 x 173.5 x 430 mm

Weight

.....	29.5 lbs.
.....	13.4 kg