

# TX-SR800

THX SELECT 7.1-CHANNEL DIGITAL SURROUND RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



THX SURROUND EX™



Available in Gold or Black

## Sure to Impress Newcomers to Home Theater and Audiophiles Alike—The TX-SR800

Onkyo's fanatical devotion to bringing you the best built receivers on the market manifests itself again in the TX-SR800. You get Onkyo exclusives WRAT (Wide Range Amplifier Technology) and VLSC (Vector Linear Shaping Circuitry) to provide the smoothest audio signal possible. Also, linear PCM 192 kHz/24-bit D/A converters for each channel and pure audio mode reduce interference to almost nothing so you can enjoy every sound, from the most subtle to the most bombastic in DVD-Audio, SACD, music CDs and of course movie soundtracks. And we didn't stop there, THX certification means you get the highest guarantee of home theater quality. The cumulative result? A receiver that delivers high-end performance, without the high-end price.

### THX Select Certified

The TX-SR800 boasts the distinction of the exclusive THX Select badge of approval. This gives you assurance that this receiver passed (and often exceeds) THX's numerous requirements in such areas as frequency response, distortion, power output, and stability.

### Dolby Digital EX

Dolby Digital EX creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best results, Dolby Digital EX should be used with movie soundtracks recorded with Dolby Digital Surround EX.

### DTS 96/24

This format offers you the sound quality of the original 96-kHz, 24-bit master in 5.1-channel surround sound for music and movie soundtracks on DVDs encoded in DTS 96/24. Also, you won't have to worry about buying a new DVD player. DTS 96/24 can be carried on DVD-video, or in the video zone of DVD-Audio. This gives you the convenience of making it playable on all DVD players.

### Color-Coded Speaker Terminals

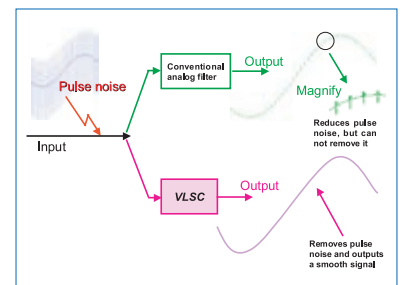
No more worries about which speaker wire goes to which speaker terminal. The TX-SR800 features color-coded speaker terminals that allow you to easily connect the correct wire to the correct terminal. Simply attach the color-coded label to the speaker cable, and then attach the cable to the same colored speaker terminal for fast and easy speaker connection.

### Crossover Adjustment for Bass Management

Previously crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 40, 60, 80, 100 or 120 Hz depending on your speakers' bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.

### VLSC (Vector Linear Shaping Circuitry)

Conventional D/A conversion methods reduce digital pulse noise at the conversion stage but can't remove it completely. Previously only available on Onkyo's high-end components, VLSC (Vector Linear Shaping Circuitry) employs a unique D/A conversion circuit to overcome this problem. Data is converted between the sampling points and these discreet 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.

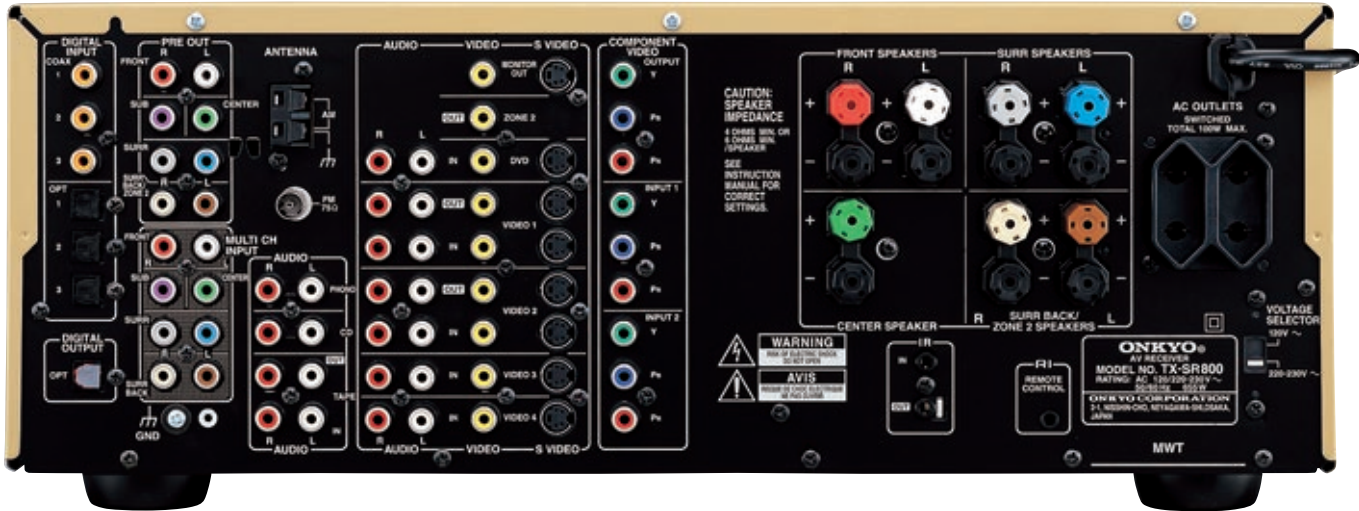


### Powered Zone 2 Capability

Unlike other receivers, you don't need an external amplifier to enjoy up to 5.1 channels in the main room, while at the same time your partner listens to a different stereo source (radio, CD, MD, LP or cassette) in another room.

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## Amplifier Features

- 160 Watts minimum of continuous power to each of the seven channels into 6 ohms at 1 kHz
- VLSC (Vector Linear Shaping Circuitry) for L/C/R
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- Reduced NFB (Negative Feedback)
- Non-scaling configuration
- Absolute ground plate
- Linear Optimum Gain Volume Circuitry
- 192 kHz/24-bit audio D/A converters (L/C/R/SW/SL/SR)
- 96 kHz/24-bit audio D/A converters (SBL/SBR)
- 96 kHz/24-bit audio A/D converters
- Full bandwidth power to all 7 main channels
- Discrete power amplifier circuitry for all channels
- High-current, low-impedance 4 ohm drive for all channels
- Powered Zone 2 capability
- Auto-protection circuitry
- Digital upsampling
- High-grade extruded-aluminum heat sink
- Low Frequency Effect (LFE) level control
- Massive isolated transformer
- Thick bus bars
- Tone control (bass, treble) for L/C/R speakers, (Bass) for subwoofer

## Audio/Video Features

- THX Select Certified
- THX Surround EX
- DTS, DTS-ES, Discrete/Matrix 6.1, DTS Neo:6, DTS 96/24
- Dolby Digital, Dolby Digital EX, Dolby Pro Logic II decoding
- 2 component video inputs and 1 output
- 3 Audio & 6 A/V input terminals

- 7 digital inputs (3 coaxial, 4 optical; 3 assignable) and 1 output (Optical)
- 6 S-video inputs and 3 outputs
- 7.1 Multichannel input for DVD-Audio & SACD
- 7 Sets of heavy-duty color-coded multiway speaker binding posts (dual banana-plug compatible)
- Color-coded multichannel RCA pinjacks
- Color-coded pre out terminals for L/R/C/SL/SR/SB (L/R) or Zone 2 (L/R)/Subwoofer
- Composite to S-video conversion
- Front panel Audio, Video, S-video, Optical inputs
- 32-bit dual DSP chips
- 39 DSP modes
- Crossover adjustment (40/60/80/100/120 Hz)
- Pure Audio Mode
- Direct Mode
- A-Form Listening Mode Memory
- Late night mode (high, low, off)
- Theater-Dimensional Virtual Surround
- All channel stereo mode
- Y/C mix circuit for monitor out and Zone 2
- Automatic signal detection
- Full input/output cassette and VCR loops
- Phono input
- Rec out selector (Audio & video)
- Tape & Video dubbing

## FM/AM Tuner Features

- 40 FM/AM random presets
- 75-ohm antenna input
- AM loop antenna supplied
- Character input (Tuner presets, input selector)
- FM auto scan tuning
- FM indoor antenna supplied
- FM stereo indicator
- Outstanding selectivity and sensitivity

## Other Performance Features

- IntelliVolume
- On-screen display controller
- 3-mode display dimmer (bright, normal, low)
- 35-segment fluorescent dot-matrix display
- Absolute volume display
- Audio mute (remote)
- Battery-free memory backup
- Brushed aluminum front panel
- Headphone jack (standard size)
- Heavy-duty power cord
- Individual input selectors for each source
- IR input and output terminal
- Precision digital speed-sensitive volume control
- RIAA Phono Equalizer
- Separate PC (printed circuit) boards for audio and video sources
- Sleep timer via remote
- Powerful backlit/preprogrammed learning remote with Macros



Backlit/preprogrammed learning remote with Macros

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R	160 W/ch (6 Ω, 1 kHz, JEITA)
Center	160 W (6 Ω, 1 kHz, JEITA)
Surround L/R	160 W/ch (6 Ω, 1 kHz, JEITA)
Surround Back L/R	160 W/ch (6 Ω, 1 kHz, JEITA)
<b>Dynamic Power(front)</b>	
3 Ω	250 W/ch
4 Ω	210 W/ch
8 Ω	130 W/ch
<b>Total Harmonic Distortion</b> ..... 0.08 % (at rated power)	
<b>Frequency Response</b> ..... 10 Hz-100 kHz (+1 dB, -3 dB)	
<b>Signal-to-Noise Ratio</b>	
Line in	110 dB (IHF-A, 0.5 V input)
Phono	80 dB (IHF-A, 5 mV input)
<b>Damping Factor</b> ..... 60 at 8 Ω	
<b>Input Sensitivity and Impedance</b>	
Line (CD, Tape, Video 1, 2, 3, 4, 5)	200 mV, 50 kΩ
Phono	2.5 mV, 50 kΩ
Multi Channel Input	
DVD, Front L/C/R, Surround L/R, Surround Back L/R	200 mV, 50 kΩ
Subwoofer	36 mV, 50 kΩ
Digital Input Coaxial 1, 2, 3	0.5 Vp-p, 75 Ω
DVD, Video 1, 2, 3, 4, 5	1 Vp-p, 75 Ω
	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)
Component Video in-1, 2	1 Vp-p, 75 Ω (Y)
	0.7 Vp-p, 75 Ω
	(Pa/Cs, Pr/Cs)
<b>Output Level and Impedance</b>	
Rec out (Tape, Video 1, 2)	200 mV, 470 Ω
Zone 2 Line out	100 mV, 470 Ω
Pre out	
Front L/C/R, Surround L/R, Surround Back or Zone 2 L/R	1 V, 470 Ω
Video (Video 1, 2, Monitor, Zone 2)	1 Vp-p, 75 Ω
Video (Video 1, 2, Monitor)	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)
Component Video out	1 Vp-p, 75 Ω (Y)
	0.7 Vp-p, 75 Ω
	(Pa/Cs, Pr/Cs)
<b>Tone Control</b>	
Bass	± 10 dB at 50 Hz
Treble	± 10 dB at 20 kHz

### TUNER SECTION

<b>Usable Sensitivity</b>	
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV
<b>Signal-to-Noise Ratio</b>	
FM Mono	76 dB, IHF-A
FM Stereo	70 dB, IHF-A
AM	40 dB
<b>Total Harmonic Distortion</b>	
FM Mono/FM Stereo/AM	0.2 %/0.3 %/0.7 %
FM Stereo Separation	45 dB at 1 kHz/30 dB at 100 Hz-10 kHz

### GENERAL

<b>Dimensions</b> (W x H x D)	435 x 175 x 459 mm/17 1/8" x 6 7/8" x 18 1/16"
<b>Weight</b>	17.3 kg/38.1 lbs.

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