

# TX-SR701

THX SELECT 6.1-CHANNEL SURROUND RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



Available in Gold or Black

## Meet the Newest Member of Onkyo's THX Certified Family—The TX-SR701

Inheriting the characteristics that made its predecessor one of Onkyo's best built receivers, the TX-SR701 adds the guarantee of build and sound excellence that can only come from THX certification. The TX-SR701 is also ready for the rigors of a high-definition world with an impressive array of inputs and outputs combined with smooth high bandwidth handling capability. This model is prepared to handle all your entertainment needs with the latest decoding formats such as Dolby Digital EX, DTS-ES and DTS 96/24. Combine this with the sonic excellence provided by VLSC and WRAT that only Onkyo can give you, the TX-SR701 is the receiver for those serious about their sound.

### THX Select Certified

The TX-SR701 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.

### The Latest Decoding Formats

In addition to the formats you've come to expect from Onkyo's high-end receivers—THX Surround EX, Dolby Pro Logic II, DTS-ES, etc., you'll also find two of the latest decoding formats for your home on the TX-SR701. Dolby Digital EX, for six full-bandwidth channels from 5.1-channel sources and DTS 96/24 sound quality comparable to the 96 kHz, 24-bit master in full surround sound glory.

### Dual 32-Bit DSP Chips

These powerful and highly accurate dual 32-bit DSP processing chips combined with the ultra-precise 192 kHz/24-bit audio DACs featured in the TX-SR701 give you an accurate digital signal to faithfully recreate a wide variety of surround sound from digital sources for pure audio perfection.

### Color-Coded Inputs and Outputs

Onkyo's commitment to bringing the most user-friendly designed products to market further manifests itself with color-coded inputs and outputs. Now you'll no longer have worries about which wire goes to which input or output. Simply attach the color-coded label to the appropriate wire, and attach the cable to the same colored input or output for fast and easy connection.

### Powered Zone 2 Capability

Unlike other receivers, you don't need an external amplifier to enjoy 2.1 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.

### 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.

### Crossover Adjustment for Bass Management

Previously crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 40/60/80/100/120/150 Hz depending on your speaker's bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.

### Absolute Ground Plate and Bus Bars

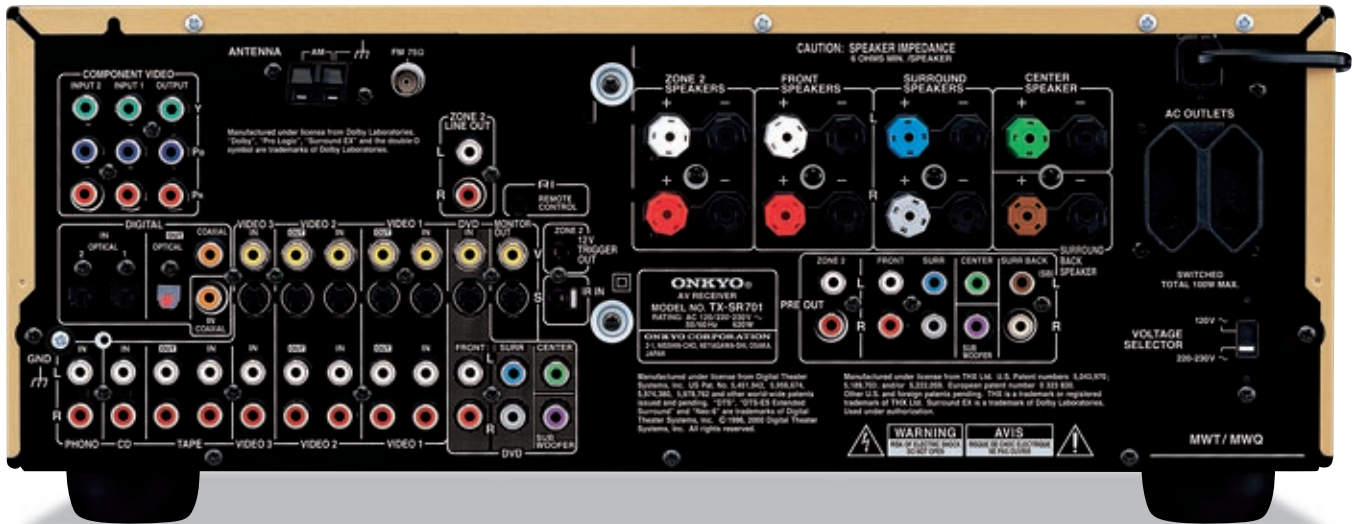
Formerly only found in our higher range of receivers, the Absolute Ground Plate and bus bars diminish fluctuations in the electrical potential and eliminate ground hum for more efficient power distribution, reduced noise, and crisper sound.



Black model

# TX-SR701

THX SELECT 6.1-CHANNEL SURROUND RECEIVER



## Amplifier Features

- 160 Watts per channel min. into 6 ohms, 1 kHz, JEITA
- 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)
- Full bandwidth power to all 6 main channels
- High-current, low-impedance 6 ohm drive for all channels
- Absolute Ground Plate
- Powerful transformer
- Discrete power amplifier circuitry for all channels
- Auto-protection circuitry
- High-grade extruded-aluminum heat sink
- Low Frequency Effect (LFE) level control
- Thick bus bars

## Audio/Video Features

- THX Select Certified
- THX Surround EX
- DTS, DTS-ES Discrete/Matrix 6.1, DTS 96/24, DTS NEO:6
- Dolby Digital, Dolby Digital EX, Dolby Pro Logic II decoding
- State-of-the-art linear PCM 192 kHz 24-bit DACs for all channels
- Optimum Gain Volume Circuitry
- Digital upsampling
- 32-bit dual DSP chips
- 39 DSP modes
- Non-scaling configuration
- Powered Zone 2 capability
- Y/C mix circuit for monitor out and Zone 2
- "Double Bass" function
- A-Form Listening Mode Memory
- Crossover adjustment (40/60/80/100/120/150 Hz)
- 2 Component video inputs and 1 output
- 3 Audio & 5 AV input terminals

- 4 digital inputs (1 coaxial, 3 optical; 3 assignable)
- 2 Digital outputs (optical/coaxial)
- 5 S-Video inputs and 3 outputs
- 5.1 Multichannel color-coded inputs for DVD-Audio & Super Audio CD
- 8 Sets of heavy-duty color-coded multiway speaker binding posts (dual banana-plug compatible)
- Color-Coded pre out terminals for L/R/C/SL/SR/SBL/SBR/Subwoofer/Zone 2 L/R
- Composite to S-Video conversion
- Front panel Audio/Video, S-Video, Optical inputs
- Pure Audio Mode
- Direct Mode
- Automatic signal detection
- Full input/output cassette and VCR loops
- Late night mode (high, low, off)
- Phono input
- Rec out selector (Audio & Video) for tape & video dubbing
- Bass and treble tone control (Front L/R)
- Theater-Dimensional Virtual Surround

## FM/AM Tuner Features

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

## Other Performance Features

- IntelliVolume
- 12 V Trigger output for Zone 2
- IR input terminal
- RIAA Phono Equalizer
- Precision digital speed-sensitive volume control
- Absolute volume display
- On-screen display controller

- Separate PC (printed circuit) boards for audio and video sources
- 35-Segment fluorescent dot-matrix display
- 3-mode display dimmer (bright, normal, low)
- Individual input selectors for each source
- Headphone jack (standard size)
- Audio mute (via remote)
- Sleep timer (via remote)
- Battery-free memory backup
- Heavy-duty power cord
- Brushed aluminum front panel
- Powerful backlit/preprogrammed learning remote with Macro



Powerful backlit/preprogrammed learning remote with Macro

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R	160 W + 160 W (6 $\Omega$ , 1 kHz, JEITA)
Center	160 W (6 $\Omega$ , 1 kHz, JEITA)
Surround L/R	160 W + 160 W (6 $\Omega$ , 1 kHz, JEITA)
Surround Back	160 W (6 $\Omega$ , 1 kHz, JEITA)
<b>Dynamic Power</b>	
	230 W + 230 W (3 $\Omega$ , Front)
	170 W + 170 W (4 $\Omega$ , Front)
	115 W + 115 W (8 $\Omega$ , Front)
<b>THD (Total Harmonic Distortion)</b>	
	0.08 % (Rated Power)
<b>Damping Factor</b>	
	60 (Front, 1 kHz, 8 $\Omega$ )
<b>Input Sensitivity and Impedance</b>	
Line	200 mV/47 k $\Omega$ (CD, Tape, etc.)
Phono	2.5 mV/47 k $\Omega$ (MM)
Multichannel	200 mV/47 k $\Omega$ (DVD, except for Subwoofer)
	36 mV/47 k $\Omega$ (DVD, Subwoofer)
Digital input Coaxial	0.5 Vp-p/75 $\Omega$
<b>Output Level and Impedance</b>	
Rec out	200 mV/470 $\Omega$ (Tape, Video 1)
Line out	200 mV/470 $\Omega$ (Zone 2)
Pre out	1.0 V/470 $\Omega$
<b>Frequency Response</b>	
	10 Hz-100 kHz + 1 dB, -3 dB (Direct mode)
<b>Tone Control</b>	
	$\pm$ 10 dB, 50 Hz (BASS)
	$\pm$ 10 dB, 20 kHz (TREBLE)
<b>Signal-to-Noise Ratio</b>	
	110 dB (Line in, IHF-A), 80 dB (Phono in, IHF-A)
<b>Speaker Impedance</b>	
	6 $\Omega$ -16 $\Omega$

### VIDEO SECTION

<b>Input Sensitivity/Output Level and Impedance</b>	
Video	1.0 Vp-p/75 $\Omega$ (Component and S-Video Y)
	0.7 Vp-p/75 $\Omega$ (Component Pb/Cb, Pr/Cr)
	0.28 Vp-p/75 $\Omega$ (S-Video C)
	1.0 Vp-p/75 $\Omega$ (Composite)
<b>Component Video Frequency Response</b>	
	DC-50 MHz

### TUNER SECTION

<b>[FM]</b>	
<b>Tuning Frequency Range</b>	
	87.50 MHz-108.00 MHz
<b>Usable Sensitivity</b>	
FM Stereo	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
FM Mono	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
<b>Signal-to-Noise Ratio</b>	
FM Stereo	70 dB (IHF-A)
FM Mono	76 dB (IHF-A)
<b>Total Harmonic Distortion</b>	
FM Stereo	0.3 %
FM Mono	0.2 %
<b>FM Stereo Separation</b>	
	45 dB at 1 kHz, 30 dB at 100 Hz-10 kHz
<b>[AM]</b>	
<b>Tuning Frequency Range</b>	
	531 kHz-1,602 kHz, 530 kHz-1,710 kHz
<b>Usable Sensitivity</b>	
AM	30 $\mu$ V
<b>Signal-to-Noise Ratio</b>	
AM	40 dB
<b>Total Harmonic Distortion</b>	
AM	0.7 %

### GENERAL

<b>Power Supply</b>	AC 120/220-230 V, 50/60 Hz
<b>Power Consumption</b>	620 W
<b>Stand-by Power Consumption</b>	2 W
<b>Dimensions (W x H x D)</b>	435 x 175 x 431.5 mm
<b>Weight</b>	13.0 kg

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