

# TX-SR700

DIGITAL SURROUND HOME THEATER RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



Available in Gold or Black

## Superior Sound and Quality, Now with Dolby Digital EX and DTS-ES

Adhering to Onkyo's policy of providing you with uncompromising receivers built to excel in movie and music reproduction, we proudly present the TX-SR700. Notable upgrades include two digital outputs, front panel video, S-Video & digital inputs, Crossover Adjustment for bass management, and a sixth channel for Dolby Digital EX and DTS-ES decoding. These high-end features in this affordable package give you some of the clearest and most dynamic sound available on the home theater market.

### 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.

### Powered Zone 2 Capability

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

### Optimum Gain Volume Circuitry

To produce volume at low levels, conventional volume attenuation methods must initially drop a signal close to the noise floor. This often taints the signal with a small amount of noise, which becomes amplified when the signal is amplified. Onkyo's Optimum Gain Volume Circuitry solves this problem by adjusting the gain so that less than half the typical amount of attenuation is needed. This ensures that the signal never comes close to the noise floor, and thereby eliminates the possibility of noise contamination that plagues conventional volume-attenuation designs.

### Color-Coded Speaker Terminals

No more worries about which speaker wire goes to which speaker terminal. The TX-SR700 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, attach the cable to the same colored speaker terminal for fast speaker connection.

### CinemaFILTER

The tonal balance of a film soundtrack will be edgy and "bright" when played back over audio equipment in your home because film soundtracks are designed to be played back in large theaters using different equipment. Onkyo had developed its own enhancement that restores the correct tonal balance for watching a movie soundtrack in your smaller home theater.

### Crossover Adjustment for Bass Management

Previously crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 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.

### Outstanding Value

The TX-SR700 offers the performance of high-end receivers at a fraction of the price by sharing many of the same precision parts (heat sink, bus bars, metal work, etc.) and circuit design (WRAT, Non-Scaling Configuration, high-current low-impedance drive) as its more expensive siblings. This drastically reduces tooling costs, and the savings are passed on.

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## Amplifier Features

- 160 Watts minimum to each of the six channels into 6 ohms at 1 kHz
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- DVD-Audio Capability
- Powered Zone 2 Capability
- Full bandwidth power to all 6 main channels
- High-current, low-impedance 6 ohm drive for all six channels
- Oversized electrolytic capacitors
- State-of-the-art linear PCM 192 kHz/24-bit DACs for L/R channels 96 kHz/24-bit DACs for other channels
- Fully discrete output stages for all six channels
- Optimum Gain Volume Circuitry
- Absolute Ground Plate
- Massive isolated transformer
- High-grade extruded-aluminum heat sink
- Tone control (bass, treble) for front L/R speakers
- Low Frequency Effect (LFE) level control
- Auto-protection circuitry

## Audio/Video Features

- DTS, DTS-ES Discrete/Matrix 6.1, DTS Neo: 6, Dolby Digital, Dolby Digital EX, Dolby Pro Logic II decoding
- A-Form Listening Mode Memory
- Non-Scaling Configuration
- CinemaFILTER
- 13 DSP soundfields
- All channel stereo
- Stereo Mode
- Direct Mode
- Pure Audio Mode
- High Definition DSP
- Late night mode (high, low, off)
- "Easy-set" speaker configuration
- Crossover Adjustment (80/100/120 Hz) for bass management

- 5.1-Channel input
- Automatic signal detection
- Full set of multichannel pre outputs
- 2 component video inputs and 1 output
- 4 digital inputs (1 coaxial, 3 optical; 3 assignable) and 2 outputs (1 coaxial, 1 optical)
- 5 S-Video inputs and 3 outputs
- 5 A/V inputs
- 3 Audio inputs
- Phono input
- Front panel A/V, S-Video, Optical inputs
- Multi channel input for DVD-Audio
- Rec out selector (sound)
- Full input/output cassette and VCR loops
- Pre-out terminals for L/R/C/SL/SR SB/Subwoofer/Zone 2 L/R
- 8 Sets of heavy-duty multiway speaker binding posts (dual banana-plug compatible)
- Color-coded speaker terminals

## FM/AM Tuner Features

- Outstanding selectivity and sensitivity
- 40 FM/AM random presets
- FM auto tuning
- FM/cable TV simulcast recording/playback
- FM stereo indicator
- 75-ohm antenna input
- FM indoor antenna supplied
- AM loop antenna supplied

## Other Performance Features

- IntelliVolume
- Precision digital speed-sensitive volume control
- Absolute volume display
- Separate PC (printed circuit) boards for audio and video sources
- 35-Segment dot-matrix display
- Onscreen display controller
- Individual input selectors for each source

- 3-Mode display dimmer (bright, normal, low)
- Headphone jack (standard size)
- Audio mute (remote)
- Sleep timer (remote)
- Battery-free memory backup
- 2 Switched AC convenience outlets with a total 100 watts max
- Heavy-duty power cord
- Large non-resonant feet
- Heavy-gauge, anti-resonant, reinforced steel chassis
- Vibration-resistant cover
- Brushed aluminum front panel
- Powerful backlit/preprogrammed learning remote
- 12 V Trigger output for Zone 2
- IR input terminal
- RIAA Phono Equalizer



Backlit/preprogrammed learning remote

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R .....	160 W/ch (6 $\Omega$ , 1 kHz, JEITA)
Center .....	160 W (6 $\Omega$ , 1 kHz, JEITA)
Surround L/R .....	160 W/ch (6 $\Omega$ , 1 kHz, JEITA)
Surround Back .....	160 W (6 $\Omega$ , 1 kHz, JEITA)
<b>Dynamic Power (front)</b>	
3 $\Omega$ .....	230 W/ch
4 $\Omega$ .....	170 W/ch
8 $\Omega$ .....	115 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 .....	100 dB (IHF-A, 0.5 V input)
Phono .....	80 dB (IHF-A, 5 mV input)
<b>Damping Factor</b> .. 60 at 8 $\Omega$	
<b>Input Sensitivity and Impedance</b>	
LINE (CD, TAPE, VIDEO 1, 2, 3, 4) .....	200 mV, 47 k $\Omega$
PHONO .....	2.5 mV, 47 k $\Omega$
<b>MULTI CH INPUT</b>	
DVD FRONT L/C/R, SURROUND L/R .....	200 mV, 47 k $\Omega$
SUBWOOFER .....	36 mV, 47 k $\Omega$
DIGITAL INPUT COAXIAL .....	0.5 Vp-p, 75 $\Omega$
DVD, VIDEO 1, 2, 3, 4 .....	1 Vp-p, 75 $\Omega$
	1 Vp-p, 75 $\Omega$ (Y)
	0.28 Vp-p, 75 $\Omega$ (C)
COMPONENT VIDEO IN-1, 2 .....	1 Vp-p, 75 $\Omega$ (Y)
	0.7 Vp-p, 75 $\Omega$ (Pr/Cr, Pb/Cr)
<b>Output Level and Impedance</b>	
Rec out (TAPE, VIDEO 1) .....	200 mV, 470 $\Omega$
Pre out (SUBWOOFER) .....	1.0 V, 470 $\Omega$
VIDEO (VIDEO 1, 2, MONITOR) .....	1 Vp-p, 75 $\Omega$
	1 Vp-p, 75 $\Omega$ (Y)
	0.28 Vp-p, 75 $\Omega$ (C)
COMPONENT VIDEO OUT .....	1 Vp-p, 75 $\Omega$ (Y)
	0.7 Vp-p, 75 $\Omega$ (Pr/Cr, Pb/Cr)
<b>Tone Control</b>	
BASS .....	$\pm$ 12 dB at 50 Hz
TREBLE .....	$\pm$ 12 dB at 20 kHz

### TUNER SECTION

<b>Usable Sensitivity</b>	
FM Mono .....	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
FM Stereo .....	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
AM .....	30 $\mu$ V
<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 .....	0.2 %
FM Stereo .....	0.3 %
AM .....	0.7 %
<b>FM Stereo Separation</b> .....	45 dB at 1 kHz/30 dB at 100 Hz-10 kHz

### GENERAL

<b>Dimensions (W x H x D)</b> .....	435 x 175 x 431.5 mm
<b>Weight</b> .....	13.5 kg

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