

# TX-SR500

DIGITAL SURROUND HOME THEATER RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



Available in Black or Gold

## High-End Quality and Value in an Entry Level Receiver

Start your home theater off with the cost-efficient yet powerful TX-SR500. This receiver not only provides you with maximum digital home theater flexibility, but also sound and build quality that has no equal in its class. Starting with the elegant, high-end feel of an all aluminum front panel, combined with heavy-duty speaker binding posts, state-of-the-art 96 kHz/24-bit DACs, front-panel A/V inputs, and color-coded speaker terminals for unparalleled ease of use, the TX-SR500 is a receiver with high-end feeling at an entry level price.

### Color-Coded Speaker Terminals

No more worries about which speaker wire goes to which speaker terminal. The TX-SR500 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.

### 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.

### Designed to Handle Today's and Tomorrow's High-Resolution Multichannel A/V Sources

To accommodate the wide dynamic range of sources like DVD-Audio and Super Audio CD (SACD), the TX-SR500 delivers a stereo frequency response from 10 Hz to 100,000 Hz. The unit also features a 5.1-channel input, meaning it's ready for new multichannel formats down the road.

### CinemaFILTER

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

### Dot Matrix Fluorescent Display

The front panel display of the TX-SR500 just got easier to read with the 35-Dot-Matrix Display with 3-Mode dimmer. Easy to read and use—dimnable so you can match the ambience of any room for maximum home theater enjoyment.

### Wide Range Amplifier Technology (WRAT)

This Onkyo exclusive was originally developed for our high-end receivers. It provides a movie-theater impact and sound purity that conventional receivers can't match by offering you three distinct advantages:

- 1) Low negative feedback design
- 2) Elimination of ground-potential fluctuations
- 3) High instantaneous current capability

### 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.

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DIGITAL SURROUND HOME THEATER RECEIVER



## Amplifier Features

- 115 Watts minimum to each of the two channels into 6 ohms at 1 kHz
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- Full bandwidth power to all 5 main channels
- High-current, low-impedance 6 ohm drive for all five channels
- Oversized electrolytic capacitors
- State-of-the-art linear PCM 96 kHz/24-bit DACs for all channels
- Fully discrete output stages for all five channels
- Optimum gain volume circuitry
- Massive isolated transformer
- Large high-grade aluminum heat sink
- A/B speaker drive
- Tone control (bass, treble) for front L/R speakers
- Auto-protection circuitry

## Audio/Video Features

- Dolby Digital, DTS, Dolby Pro Logic II decoding
- All channel stereo
- 9 DSP soundfields
- High Definition DSP
- Late night mode (on, off)
- "Easy-set" speaker configuration
- CinemaFILTER
- Advanced 24-bit dual CRYSTAL DSP chips
- Crossover Adjustment (80/100/120 Hz) for bass management
- 5.1-Channel input
- Multi-Channel input for DVD-Audio
- Automatic signal detection
- 3 Assignable digital inputs (1 coaxial, 2 optical)
- 4 S-Video inputs and 2 outputs
- 4 A/V inputs
- 2 Audio inputs
- Front panel A/V, S-Video inputs
- Dedicated line-level subwoofer pre out
- Full input/output cassette and VCR loops
- 5 Sets of heavy-duty multiway speaker binding posts (dual banana-plug compatible) (except SP-B)
- Color-coded speaker terminals

## FM/AM Tuner Features

- Outstanding selectivity and sensitivity
- 30 FM/AM random presets
- FM auto tuning
- Red FM stereo indicator
- 75-ohm antenna input
- FM indoor antenna supplied
- AM loop antenna supplied

## Other Performance Features

- Precision digital speed-sensitive volume control
- Absolute volume display
- Separate PC (printed circuit) boards for audio and video sources
- Dot matrix fluorescent display
- 3-Mode display dimmer
- Individual input selectors for each source
- Headphone jack (standard size)
- Audio mute (remote)
- Sleep timer (remote)
- Battery-free memory backup
- 1 Switched AC convenience outlet 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



Remote control

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R .....	115 W/ch (6 $\Omega$ , 1 kHz, JEITA)
Center .....	115 W (6 $\Omega$ , 1 kHz, JEITA)
Surround L/R .....	115 W/ch (6 $\Omega$ , 1 kHz, JEITA)
<b>Dynamic Power (front)</b>	
3 $\Omega$ .....	160 W/ch
4 $\Omega$ .....	125 W/ch
8 $\Omega$ .....	85 W/ch
<b>Total Harmonic Distortion</b> .....	
0.08 % (all channels)	
<b>Frequency Response</b> .....	
10 Hz-100 kHz (+1 dB, -3 dB)	
<b>Signal-to-Noise Ratio</b>	
CD/TAPE .....	100 dB (IHF-A, 0.5 V input)
<b>Damping Factor</b> .....	
60 at 8 $\Omega$	
<b>Input Sensitivity and Impedance</b>	
LINE (CD, TAPE, VIDEO 1, 2, 3) .....	200 mV, 50 k $\Omega$
MULTI CH INPUT	
DVD FRONT L/C/R, SURROUND L/R .....	200 mV, 50 k $\Omega$
SUBWOOFER .....	36 mV, 50 k $\Omega$
DIGITAL INPUT COAXIAL .....	0.5 Vp-p, 75 $\Omega$
DVD, VIDEO 1, 2, 3 .....	1 Vp-p, 75 $\Omega$
	1 Vp-p, 75 $\Omega$ (Y)
	0.28 Vp-p, 75 $\Omega$ (C)
<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, MONITOR) .....	1 Vp-p, 75 $\Omega$
	1 Vp-p, 75 $\Omega$ (Y)
	0.28 Vp-p, 75 $\Omega$ (C)
<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/FM Stereo/AM .....	0.2%/0.3%/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 150 x 376 mm
<b>Weight</b> .....	8.8 kg

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