

# TX-SR703

THX™ SELECT2™ CERTIFIED 7.1-CHANNEL A/V SURROUND HOME THEATRE RECEIVER

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



Available in Silver or Black

Remote Control

## Designed to Bring Harnessed Power and Exceptional Versatility to Home Theatre

As the latest incarnation of one of Onkyo's most popular receivers, the THX Select2 Certified TX-SR703 looks set to excel in the mid-range category. In keeping with its impressive legacy, the TX-SR703 boasts high-grade parts and immaculate construction, along with the ability to integrate effectively with the latest high-definition displays, playback components and high-quality speakers. The key words here are "power" and "precision." Power, at a robust 100 watts per channel. And precision, from our VLSC (Vector Linear Shaping Circuitry), which coaxes a virtually noise-free signal from all your movie and music sources. Other functions, like crossover adjustment from 40 Hz to 200 Hz with 10/20 Hz steps and speaker placement calibration with Auto Speaker Set-up with Microphone, accurately deliver the low frequencies and enveloping sound that recreate the floor-quaking impact of the cinema, right in your own home.

### THX™ Select2™ Certified and THX™ Surround EX™

With THX Select2 certification, the TX-SR703 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 ASA (Adaptive Speaker Array) 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.

### Component Video Upconversion with TBC (Time Base Corrector)

When connecting playback devices to compatible displays, upconversion of both composite and S-Video signals to component video can be output through one single cable. During upconversion, each signal incorporates a synchronization pulse (synch) that represents the beginning of each video signal. These synchs need to be highly precise in amplitude and timing to eliminate clock jitter, which can degrade the picture substantially, particularly on high-resolution display devices. By incorporating a time base corrector in the conversion process, inconsistencies in the signal's timing can be corrected thereby ensuring the highest quality picture possible.

### Auto Speaker Set-up with Microphone

The TX-SR703 uses a high-sensitivity microphone to pick up test tones from your favorite listening spot, and then uses an acoustic analyzer to adjust the sound pressure level and time delay of each channel. Test tones are output by each speaker, detected by the microphone and shown through an onscreen display. This ensures that each channel's delivered synchronously, so you get the most accurate frequency response from your favorite listening spot. Easily calibrated using the TX-SR703's onscreen display and quickly completed in minutes, this function is also useful if you decide to switch rooms, or even move to another home.

### Multiroom Playback Capabilities through Powered Zone 2

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 or using only 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 AV source in Zone 2 (with the Zone 2 amplifier automatically switched on by a 12 V trigger). With the latter method, you can use 5.1 surround sound in the main room and play a different AV source (stereo) in Zone 2.

### Integrating the iPod® into your System

Onkyo's RI (Remote Interactive) capability enables you to integrate different Onkyo components for control through one remote. Now it also lets you simply connect the iPod to the TX-SR703 through the RI Dock for the iPod (DS-A1). As one of the more versatile interfaces between the iPod and audio-video systems available, you get hands-free iPod control, recharging capacity and even playback of digital photos. Combine this with Powered Zone 2, and you can simultaneously playback multichannel A/V sources while enjoying digital music in another room.

### VLSC (Vector Linear Shaping Circuitry) for All Channels

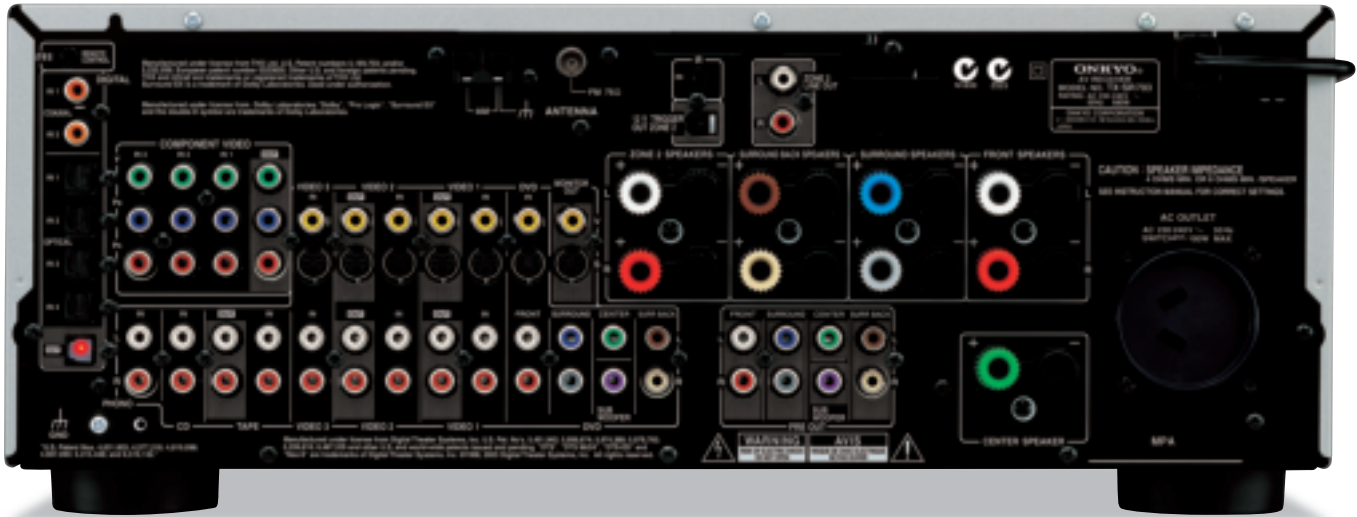
The TX-SR703 incorporates Onkyo's VLSC (Vector Linear Shaping Circuitry), which employs a unique D/A conversion circuit to mitigate the effect of signal noise. As noise is magnified during the conversion process, even minimal amounts of noise can adversely affect audio quality. With VLSC, data is converted 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.

### Independent Crossover Adjustment for Bass Management

With the TX-SR703'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. Previously, crossover adjustment was limited to 40/60/80/100/120/150 Hz, so you will find that the TX-SR703 gives you greater scope to match different speakers and subwoofers to your system.

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## Amplifier Features

- 100 Watts per channel minimum into 8 ohms, at 20 Hz-20 kHz, FTC
- VLSC (Vector Linear Shaping Circuitry) for all channels
- WRAT (Wide Range Amplifier Technology)
- Extended frequency response (10 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
- Component video upconversion with TBC (Time Base Corrector)
- Composite to S-Video upconversion
- HDTV-capable (100 MHz) component video switching
- Optimum Gain Volume Circuitry
- Digital upsampling
- Non-scaling configuration
- Powered Zone 2 (lineout) with 12 V trigger
- A-form listening mode memory
- Independent crossover adjustment for bass management for F/C/S/B (40/60/70/80/90/100/120/150/200 Hz)
- Advanced 32-bit processing DSP chip
- 3 component video inputs and 1 output
- 5 S-Video inputs and 3 outputs
- 5 composite video inputs and 3 outputs
- 3 audio inputs and 1 output
- 7 digital inputs (5 optical/2 coaxial) and 1 optical output
- Color-coded 7.1-multichannel inputs and pre outs
- Heavy-duty, color-coded dual banana plug-compatible speaker posts
- Front panel audio, video, S-Video, optical inputs
- Pure audio mode
- Direct mode
- Automatic signal detection
- Dedicated line-level subwoofer pre out
- Late night mode (high/low/off)
- Phono input
- Tone (bass/treble) control for L/R channels

## FM/AM Tuner and Other Performance Features

- 40 FM/AM random presets
- Character input (tuner presets, input selector)
- Outstanding selectivity and sensitivity
- Compatible with RI Dock (DS-A1) for the iPod®
- IntelliVolume
- On-screen display control
- 3-mode display dimmer (bright/normal/low)
- Speaker placement calibration through Auto Speaker Set-up with Microphone
- Absolute volume display
- Double bass function
- Battery-free memory backup
- Brushed aluminum front panel
- Headphone jack (standard size)
- Heavy-duty power cord
- Individual input selectors for each source
- IR input terminal
- Blue illuminated volume control
- Separate PC (printed circuit) boards for audio and video sources
- Sleep timer via remote
- Backlit/Preprogrammed RI (Remote Interactive) learning remote control with 3 macros and mode-key LEDs



Black model

## SPECIFICATIONS

### AMPLIFIER SECTION

<b>Power Output</b>	
Front L/R.....	100 W + 100 W (8 Ω, 20 Hz-20 kHz, FTC)
Center .....	100 W (8 Ω, 20 Hz-20 kHz, FTC)
Surround L/R.....	100 W + 100 W (8 Ω, 20 Hz-20 kHz, FTC)
Surround Back L/R .....	100 W + 100 W (8 Ω, 20 Hz-20 kHz, FTC)
<b>Dynamic Power</b> .....	
	230 W + 230 W (3 Ω, Front)
	170 W + 170 W (4 Ω, Front)
	115 W + 115 W (8 Ω, Front)
<b>THD (Total Harmonic Distortion)</b> .....	
	0.08 % (Rated Power)
<b>Damping Factor</b> .....	
	60 (Front, 1 kHz, 8 Ω)
<b>Input Sensitivity and Impedance</b>	
Line.....	200 mV/47 kΩ
Phono MM.....	2.5 mV/47 kΩ
<b>Output Level and Impedance</b>	
Rec out.....	200 mV/470 Ω (Tape, Video 1-2)
<b>Frequency Response</b> .....	
	10 Hz-100 kHz/ +1 dB, -3 dB (Line)
<b>Tone Control</b> .....	
	±10 dB, 50 Hz (BASS)
	±10 dB, 20 kHz (TREBLE)
<b>Signal-to-Noise Ratio</b> .....	
	106 dB (Line in, IHF-A)
	80 dB (Phono in, IHF-A)
<b>Speaker Impedance</b> .....	
	4 Ω/6 Ω-16 Ω

### VIDEO SECTION

<b>Input Sensitivity/Output Level and Impedance</b>	
Video.....	1.0 Vp-p/75 Ω (Component and S-Video Y)
	0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr)
	0.28 Vp-p/75 Ω (S-Video C)
	1.0 Vp-p/75 Ω (Composite)
<b>Component Video Frequency Response</b> .....	
	5 Hz-100 MHz

### TUNER SECTION

<b>[FM]</b>	
<b>Tuning Frequency Range</b> .....	
	87.5 MHz-108.0 MHz
<b>Usable Sensitivity</b>	
Stereo.....	22.2 dBf, 2.0 μV (75 Ω IHF)
Mono.....	15.2 dBf, 1.0 μV (75 Ω IHF)
<b>Signal-to-Noise Ratio</b>	
Stereo.....	67 dB (IHF-A)
Mono.....	73 dB (IHF-A)
<b>Total Harmonic Distortion</b>	
Stereo.....	0.5 % (1 kHz)
Mono.....	0.3 % (1 kHz)
<b>Stereo Separation</b> .....	
	40 dB (1 kHz)
<b>[AM]</b>	
<b>Tuning Frequency Range</b> .....	
	522 kHz-1,611 kHz/530 kHz-1,710 kHz
<b>Usable Sensitivity</b> .....	
	300 μV/m
<b>Signal-to-Noise Ratio</b> .....	
	40 dB
<b>Total Harmonic Distortion</b> .....	
	0.7 %

### GENERAL

<b>Power Supply</b> .....	
	AC 230-240 V, 50 Hz
<b>Power Consumption</b> .....	
	680 W
<b>Stand-by Power Consumption</b> .....	
	0.5 W
<b>Dimensions (W x H x D)</b> .....	
	435 x 173.5 x 430 mm
<b>Weight</b> .....	
	13.3 kg

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