

# TX-SR705 7.1-Channel Home Theatre Receiver

SILVER BLACK



## Redefining its Class with Controlled Power and High-Definition Prowess

You'll be hard-pressed to find a mid-range home theatre A/V receiver that packs the TX-SR705's amplification power and audio processing capabilities. It might be comforting to look to its THX™ Select2™ certification for confirmation, but as the THX engineers have seen, there's a lot more here than just efficient amplifier drive ability and all-round home theatre performance. The TX-SR705 breaks new ground in the mid-range category by featuring not only the lossless audio codecs, Dolby® TrueHD and DTS-HD® Master Audio, but also the most advanced version of HDMI. And with a wealth of other class-leading features—1080p video processing, Audyssey's MultEQ® XT technology for room calibration and advanced processing devices from Texas Instruments and Cirrus Logic—nothing has been sacrificed in the making of this remarkable home theatre component.

### THX Select2 Certification for a Better Class of Home Theatre

From its development stage to its final conception, the TX-SR705 has been engineered to comply with the most stringent requirements of THX Select2. Select2 certification means that the TX-SR705 is ideally suited to a home theatre where the viewing distance from screen to seat is around 10-12 feet and the room volume is no greater than 2000 cubic feet. Among its technologies, Advanced Speaker Array (ASA) digitally reconfigures surround speakers for three listening modes: movies, music and gaming. The THX stamp of approval also covers an A/V receiver's amplification characteristics. For example, under THX testing, the TX-SR705 has been proven to provide 12.5 amperes of peak current for its front channels and 6.2 amperes for its surrounds.

### Processing 1080p Video and High-Resolution Audio via High-Definition Multimedia Interface (HDMI 1.3a)

With three HDMI inputs, you can receive and switch the latest high-definition components—Blu-ray Disc and HD DVD players, satellite and cable boxes, media centers and gaming consoles—for a pure, one-cable digital connection to an HDTV. HDMI also delivers the latest high-definition audio formats—Dolby TrueHD, DTS-HD Master Audio, Dolby® Digital Plus and DTS-HD® High Resolution Audio—to be processed by the TX-SR705's onboard decoders. These new formats enable unprecedented quality, including bit-for-bit reproduction in the case of TrueHD and Master Audio. Also, HDMI 1.3a gives you greater bandwidth to deal with higher resolutions, 36-bit Deep Color™ and high frame rates.

### HDMI and Component Video Upconversion for a Single Output to High-Resolution Displays

The TX-SR705's HDMI inputs can receive pristine digital video from HDMI-enabled components, for a single-cable output to a display device with an HDMI or DVI connection. The TX-SR705 can also upconvert analog signals to HDMI so that all connected video sources can be outputted via one cable. And if your display doesn't have HDMI capability you can use the HD-quality component video connections, which will also cover your S-Video and composite video sources. To support progressive scan, the TX-SR705 features a deinterlacing chip with Faroudja DCDi Edge™ (Directional Correlational Deinterlacing). This technology helps to effectively eliminate video artifacts from HDTV images.

### Audyssey MultEQ XT for Powerful Room Acoustics Correction

MultEQ XT is Audyssey's most powerful built-in solution for countering distortion in dedicated home theatres. This technology detects speakers, and then sets levels, delays and crossovers, as well as measuring room acoustics. Using the receiver interface, it takes up to eight measurements around the listening area and uses high-resolution equalization filters for satellites and subwoofers. MultEQ XT covers both the frequency response and the time domain (where most of the problems lie) across the entire listening area. The results are immediately obvious—a clear, well-balanced and natural sound.



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## Three High-Quality Texas Instruments Digital Signal Processing (DSP) Chips

The TX-SR705 assigns three Texas Instruments (Aureus™) DSP chips to independently handle the greater processing requirements of Dolby TrueHD and DTS-HD Master Audio, Audyssey MultEQ XT and post-processing.

## Cirrus Logic Digital-to-Analog Converters (DACs) for Highly Precise Audio

You will find the latest Cirrus Logic DACs included in the TX-SR705 to push analog audio performance to even greater levels. These DACs offer 24-bit conversion and support sampling rates of up to 192 kHz, while displaying low clock jitter sensitivity and offering a 120 dB dynamic range.

## Playback of Different A/V Sources in the Main Room and in a Second Room

Powered Zone 2 and Zone 2 line out enable two-channel playback in another room. You can enjoy surround sound entertainment in the main room while you play back a different stereo source in the second zone through two methods: (1) By connecting a receiver/amplifier in a second zone via the Zone 2 line out, or (2) By using the Zone 2 speaker terminals to connect to a pair of speakers.

## Bi-Amping Capability for High-Impact Movies and Music

The TX-SR705's surround back speaker channels provide the ambience and effects for movies. They can also be used with the front left and right channels to provide two separate amplification channels for compatible bi-amping speakers (i.e., those with two sets of input terminals). In effect, bi-amping gives a more powerful, dynamic soundfield for two-channel music and movie sound effects.

## Neural-THX® Surround Decoder for Broadcasts and Gaming

Neural-THX Surround technology enables broadcast content to be encoded into 5.1 channels during a live mix or post-session. It can then be transmitted in a two-channel format to the home, and decoded up to 7.1 channels by the TX-SR705's onboard decoder. Neural-THX Surround will also enable 7.1-channel support for gaming, with 360-degree soundtracks that pull gamers closer to the action.

## ADVANCED FEATURES

- THX Select2 Certified (with THX Processing)
- DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus Decoding
- HDMI 1.3a Audio and Video Processing (3 Inputs and 1 Output)
- HDTV-Capable HDMI Switching
- HDTV-Capable (50 MHz) Component Video Switching (3 Inputs and 1 Output)
- HDMI and Component Video Upconversion
- 192 kHz/24-Bit Cirrus Logic DACs for All Channels
- Three TI (Aureus) 32-Bit DSP Chips for Advanced Processing
- Bi-Amping Capability for Music and Movie Sound Effects
- Audyssey MultEQ XT to Correct Room Acoustic Problems and to Calibrate Speakers
- Powered Zone 2 and Zone 2 Line Out for Playback in Another Room
- Neural-THX Surround Technology for Gaming, Movies and Broadcasting
- Onkyo RIHD (Remote Interactive over HDMI) for System Control (Works with Certain Key Functions of Panasonic's VIERA Link)
- Compatible with RI (Remote Interactive) Dock for the iPod

## AUDIO FEATURES

- 175 W/Ch Minimum into 6 Ω, 1 kHz, JEITA (1 Channel Driven); 160 W/Ch Minimum into 6 Ω, 1 kHz, IEC (1 Channel Driven); 100 W/Ch Minimum into 8 Ω, 20 Hz–20 kHz, 0.08%, FTC (2 Channels Driven)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic IIx
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology)
- 6 Digital Inputs (3 Optical/3 Coaxial) and 1 Optical Output
- A-Form Listening Mode Memory
- Optimum Gain Volume Circuitry
- Non-Scaling Configuration
- Tone Control (Bass/Treble) for L/R Channels
- Color-Coded 7.1-Multichannel Inputs and Pre Outs
- Independent Crossover Adjustment for F/C/S/SB (40/50/60/70/80/90/100/120/150/200 Hz)
- Double Bass Function

## VIDEO FEATURES

- 5 S-Video Inputs and 2 Outputs
- 5 Composite Video Inputs and 2 Outputs
- Front Panel Auxiliary Input (for Camcorders, Game Consoles, etc.)

## OTHER FEATURES

- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Deinterlacer with Faroudja DCDi Edge (Directional Correlational Deinterlacing) Technology
- Pure Audio Mode
- A/V Synchronization Function (Up to 250 ms in 5 ms Steps)
- 40 FM/AM Radio Presets
- Onscreen Display
- RS232 Port
- IR Input
- 12V Trigger
- 5 A/V Inputs and 1 Output
- 2 Audio Inputs and 1 Output
- Phono Input
- Direct Mode
- IntelliVolume
- Late Night Mode
- Headphone Jack
- Aluminum Front Panel
- Preprogrammed RI (Remote Interactive) Learning Remote Control with Macros and Mode-Key LEDs

## SPECIFICATIONS

### AMPLIFIER SECTION

Power Output	
Front L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Center	175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Surround L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Surround Back L/R	175 W + 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA) 160 W + 160 W (6 Ω, 1 kHz, 1 channel driven, IEC) 100 W + 100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC)
Dynamic Power	
	240 W (3 Ω, 1 ch) 210 W (4 Ω, 1 ch) 120 W (8 Ω, 1 ch)
THD (Total Harmonic Distortion)	
	0.08% (Rated power)
Damping Factor	
	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	
	200 mV/47 kΩ (Line) 2.5 mV/47 kΩ (Phono MM)
Output Level and Impedance	
	200 mV/470 Ω (Rec out)
Phono Overload	
	70 mV (MM, 1 kHz, 0.5%)
Frequency Response	
	5 Hz–100 kHz +1 dB, -3 dB (Direct mode)
Tone Control	
	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	
	106 dB (Line, IHF-A)
Speaker Impedance	
	4 Ω–16 Ω or 6 Ω–16 Ω

### VIDEO SECTION

Input Sensitivity/Output Level and Impedance	
Video	1 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Ca, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)
Component Video Frequency Response	
	5 Hz–50 MHz (-3 dB)

### TUNER SECTION

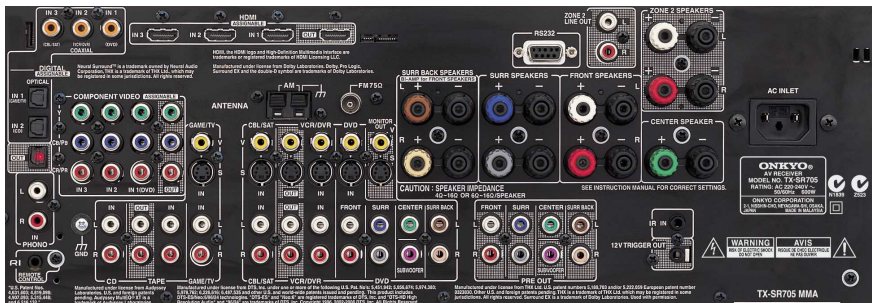
Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz
FM/AM Preset Memory	
	40 stations

### GENERAL

Power Supply	AC 220–240 V, 50/60 Hz
Power Consumption	600 W
Dimensions (W x H x D)	435 x 174 x 377 mm
Weight	12.8 kg

### ■ CARTON

Dimensions (W x H x D)	570 x 297 x 469 mm
Weight	15.7 kg



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Onkyo Corporation 2-1 Nishshin-cho, Neyagawa-shi, Osaka 572-8540, JAPAN Tel: +81-72-831-8136 Fax: +81-72-833-5222 <http://www.onkyo.com/>  
Australia: Sole Distributor, Amber Technology Ltd. Unit B, 5 Skyline Place, Frenchs Forest, NSW 2086, Sydney, AUSTRALIA Tel: +61-2-9452-8600 Fax: +61-2-9975-1368 <http://www.ambertech.com.au>  
e-mail: [consumer@ambertech.com.au](mailto:consumer@ambertech.com.au)  
New Zealand: B&W Loudspeakers (N.Z.) Ltd. 95 Tuam Street, Christchurch, NEW ZEALAND Tel: +64-3-365-5677 Fax: +64-3-366-7853 <http://www.onkyo.co.nz>