

TX-SR506



Driving Entry-Level Home Theater with Power, Finesse and HD Media

In the case of Onkyo A/V receivers, "entry level" means a whole lot more than just affordability and standard functionality. You won't find a better example than the TX-SR506, which also offers high-definition media capability and advanced sound correction technologies. With an HDMI platform handling 1080p video from three sources, the TX-SR506 brings polish and peak performance to high-definition displays and sources. Legendary Onkyo amplification drive and power set the foundation for delivering bass crunch and vocal clarity. And, thanks to the latest Audyssey technologies, you get to enjoy a sweeping soundstage even at low volumes. Easily holding its own among higher-priced A/V receivers, the TX-SR506 adds serious impetus to entry-level home theater.

Special Features

- HDMI Pass Through (3in/1out , 1080P compatible) — A separate audio connection is necessary
- "Audyssey 2EQ" Auto room calibration w/Microphone
- Music Optimizer for MP3/iPod

Product Features

Amplifier

# Channels	7
Power (8ohms 20-20kHz 0.08%) /Ch	75W
Power (8ohms 20-20kHz 0.05%) /Ch	-
Power (8ohms 1kHz 0.7%) /Ch	90W
THX Certified	-
Continuous 6ohms Rated	✓
Certified 4ohms performance	-
High Instantaneous Current Capability	30A
Amplifier Frequency Response	5Hz-100kHz
S/N Ratio (LINE IN)	100dB
All Discrete Circuitry	✓
Absolute Ground Plate	✓
Dual PUSH-PULL Design	-
Independent Block Construction (Amp/Preprocessor)	-
Toroidal Transformer	-
Independent Power Supply	-
Optimum Gain Volume	✓
Linear Optimum Gain Volume	-
Non-Scaling Configuration	-

Bi-amp Capability For Front	✓
BTL Capability For Front	-

Processing

DOLBY Decoder	PLIIx, DD, DD-EX
DTS Decoder	DTS, ES, NEO6, 96/24
Neural Surround	-
THX Processing Mode	-
DSD Processing/Direct Mode	- / -
Direct/Pure Mode	✓ / -
Music Optimizer	✓
Audyssey Dynamic EQ	✓
192K/24 Bit DACs	✓
VLSC	-
DSP Type / QTY	32 BIT
Adjustable Crossover	40/50/60/80/100/120/150/200Hz
Independent Crossover	-
AV Sync	✓
Accurate Speaker Distance Setting	✓
Multi-Band Speaker EQ	-

Connectivity

Audio I/O	6 / 2
Balanced Audio Output	-
Balanced Audio Input	-
Phono Input	-
Digital Audio IN (OPT/COAX)	2 / 2
Digital Audio OUT (OPT/COAX)	-
Composite I/O	4 / 1
S-Video I/O	3 / 1
Front-Panel A/V	L / R / V
Front-Panel Optical	-
Component Video / Bandwidth	2 / 1 / 50MHz
HDMI I/O	3 / 1
HDMI Version	V1.3 Pass Through
HDMI Bandwidth	1080p
HDMI Deep Color Capable (36bit)	✓
Component Video Upconversion	-
Analog to HDMI Upconversion	-
480i to 480p Processing	-
1080p Upscaling	-
Multi-Channel Input	7.1
Surround Pre-Outs	SUB
Speaker A/ +B	-
Powered Zone2	✓
Zone 2 Line Out	✓
Zone 2 Video Out	-
Zone 3 Line Out	-
iPod Ready	✓ (DS-A2x, DS-A2, DS-A1)
Built-in HD Radio Tuner	-
XM Radio Ready	-
SIRIUS Radio Ready	-

Integration Access

RS-232	-
IR Input	-
Ethernet	-
ONKYO-RI System Control	✓
12V Trigger	-

Miscellaneous

Pre-Pro/Learning Remote	✓ / -
Back-Lit Remote	-
Glossy Black finished Remote	✓
Simple Remote to change input & mode	✓
Color-Coded Speaker Terminals	✓
Auto Speaker Calibration W/Mic.	✓ (Audyssey 2EQ)
OSD Out	-
Input Name Edit	-
Permanent Memory Storage	✓
Solid Aluminum Front	-
Detachable AC Cord	-
Warranty	2 YEARS

Product Specifications

Amplifier Section

Power Output	-
Front L/R	75 W + 75 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W + 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Center	75 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Surround L/R	75 W + 75 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W + 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Surround Back L/R	75 W + 75 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W + 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Dynamic Power	180 W (3 ohms, 1 ch) 160 W (4 ohms, 1 ch) 100 W (8 ohms, 1 ch)
THD (Total Harmonic Distortion)	0.08% (Rated power)
Damping Factor	60 (Front, 1 kHz, 8 ohms)
Input Sensitivity and Impedance	200 mV/47 k-ohms (Line)
Output Level and Impedance	200 mV/2.2 k-ohms (Rec out)
Phono Overload	-
Frequency Response	5 Hz-100 kHz/+1 dB, -3 dB
Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	100 dB (Line, IHF-A)
Speaker Impedance	6 ohms-16 ohms

Video Section

Input Sensitivity/Output Level and Impedance

-

Video	1 Vp-p/75 ohms (Component and S-Video Y) 0.7 Vp-p/75 ohms (Component PB/CB, PR/CR) 0.28 Vp-p/75 ohms (S-Video C) 1 Vp-p/75 ohms (Composite)
Component Video Frequency Response	5 Hz–50 MHz, -3dB

Tuner Section

Tuning Frequency Range	-
FM	87.5 MHz–107.9 MHz
AM	530 kHz–1,710 kHz
FM/AM Preset Memory	40 stations

General

Power Supply	AC 120 V, 60 Hz
Power Consumption	4.9 A
Dimensions (W x H x D)	17 1/8" x 5 7/8" x 14 15/16" (435 x 149.6 x 379.2 mm)
Weight	21.56 lbs. (9.8 kg)

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TX-SR576



Entry-Level Home Theater with a Remarkable Difference—High-Def 1080p Video and Dolby® Digital Plus Surround Sound

Bringing both high-definition audio and video into an entry-level Onkyo A/V receiver for the first time, the TX-SR576 breaks barriers that were thought impregnable just a short time ago. Thanks to the TX-SR576's HDMI platform, this receiver stands out with three masterful high-def advantages: 1) The ability to switch three 1080p video sources; 2) The scope to handle enhanced Dolby Digital Plus encoded audio; and 3) The capability to integrate and operate compatible components from the leading consumer electronics brands. In recognition of the need for home theater to adapt to spacious living rooms as well as to cozy apartment spaces, the TX-SR576 features new Audyssey technologies that let you tailor surround sound to your home and ensure an enveloping soundscape, even at low volumes. When it comes to digital music, this receiver draws on Onkyo's own technology to spark life into digital audio files such as MP3s.

Special Features

- 1080P HDMI v1.2 Repeater: 3 inputs
- "Audyssey 2EQ" Auto room calibration w/Microphone
- Music Optimizer for MP3/iPod

Product Features

Amplifier

# Channels	7
Power (8ohms 20-20kHz 0.08%) /Ch	80W
Power (8ohms 20-20kHz 0.05%) /Ch	-
Power (8ohms 1kHz 0.7%) /Ch	90W
THX Certified	-
Continuous 6ohms Rated	-
Certified 4ohms performance	-
High Instantaneous Current Capability	30A
Amplifier Frequency Response	5Hz-100kHz
S/N Ratio (LINE IN)	100dB
All Discrete Circuitry	✓
Absolute Ground Plate	✓
Dual PUSH-PULL Design	-
Independent Block Construction (Amp/Preprocessor)	-
Toroidal Transformer	-
Independent Power Supply	-

Optimum Gain Volume	✓
Linear Optimum Gain Volume	-
Non-Scaling Configuration	-
Bi-amp Capability For Front	✓
BTL Capability For Front	-

Processing

DOLBY Decoder	Dolby Digital Plus, DD-EX, PLIIx
DTS Decoder	DTS, ES, NEO6, 96/24
Neural Surround	-
THX Processing Mode	-
DSD Processing/Direct Mode	- / -
Direct/Pure Mode	✓ / -
Music Optimizer	✓
Audyssey Dynamic EQ	✓
192K/24 Bit DACs	✓
VLSC	-
DSP Type / QTY	32 BIT
Adjustable Crossover	40/50/60/80/100/120/150/200Hz
Independent Crossover	-
AV Sync	✓
Accurate Speaker Distance Setting	✓
Multi-Band Speaker EQ	-

Connectivity

Audio I/O	6 / 2
Balanced Audio Output	-
Balanced Audio Input	-
Phono Input	-
Digital Audio IN (OPT/COAX)	2 / 2
Digital Audio OUT (OPT/COAX)	-
Composite I/O	4 / 1
S-Video I/O	3 / 1
Front-Panel A/V	L / R / V
Front-Panel Optical	-
Component Video / Bandwidth	2 / 1 / 50MHz
HDMI I/O	3 / 1
HDMI Version	V1.2a Repeater
HDMI Bandwidth	1080p
HDMI Deep Color Capable (36bit)	-
Component Video Upconversion	-
Analog to HDMI Upconversion	-
480i to 480p Processing	-
1080p Upscaling	-
Multi-Channel Input	7.1
Surround Pre-Outs	SUB
Speaker A/ +B	-
Powered Zone2	✓
Zone 2 Line Out	✓
Zone 2 Video Out	-
Zone 3 Line Out	-
iPod Ready	✓ (DS-A2x, DS-A2, DS-A1)
Built-in HD Radio Tuner	-
XM Radio Ready	-
SIRIUS Radio Ready	-

Integration Access

RS-232	-
IR Input	-
Ethernet	-
ONKYO-RI System Control	✓
12V Trigger	-

Miscellaneous

Pre-Pro/Learning Remote	✓/ -
Back-Lit Remote	-
Glossy Black finished Remote	✓
Simple Remote to change input & mode	✓
Color-Coded Speaker Terminals	✓
Auto Speaker Calibration W/Mic.	✓ (Audyssey 2EQ)
OSD Out	-
Input Name Edit	-
Permanent Memory Storage	✓
Solid Aluminum Front	-
Detachable AC Cord	-
Warranty	2 YEARS

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Center	80 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Surround L/R	80 W + 80 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W + 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Surround Back L/R	80 W + 80 W (8 ohms, 20 Hz-20 kHz, 0.08%, 2 channels driven, FTC) 100 W + 100 W (6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC)
Dynamic Power	180 W (3 ohms, 1 ch) 160 W (4 ohms, 1 ch) 100 W (8 ohms, 1 ch)
THD (Total Harmonic Distortion)	0.08% (Rated power)
Damping Factor	60 (Front, 1 kHz, 8 ohms)
Input Sensitivity and Impedance	200 mV/47 k-ohms (Line)
Output Level and Impedance	200 mV/2.2 k-ohms (Rec out)
Phono Overload	-
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	100 dB (Line, IHF-A)
Speaker Impedance	6 ohms-16 ohms

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Component Video Frequency Response

5 Hz–50 MHz, -3 dB

Tuner Section

Tuning Frequency Range

FM	87.5 MHz–107.9 MHz
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