

marantz®

AV Receiver

SR4500



Also black available

SR4500 AV Receiver

The Marantz SR4500 represents an outstanding combination of home theater receiver performance, features and flexibility along with renown Marantz sound quality. It's the ultimate choice for a wide variety of high performance 6.1-channel home theater systems, offering compatibility with Dolby Digital, Dolby Pro Logic IIx and DTS decoding. Experience the true excitement of a movie soundtrack through 192kHz/24-bit audio D/A conversion and experience the ultimate functionality of having a wide variety of analogue and digital video and audio inputs, outputs and switching facilities, including Component video switching. You're in control if the SR4500 drives your entertainment system.

NEW



R A N G E S E R I E S

because music matters

Features

- Innovative 32-bit Digital Signal Processing with DD-EX, DTS-ES and DPL IIx
- Wide range full discrete 7 channel power amplifiers
- Simple video conversion
- Adjustable crossover
- Multi room / single source system
- SRS TruSurround headphone
- Solid metal front panel and a rigid metal chassis
- Pre-programmed system remote control and Marantz D.Bus

Benefits

- Provides up to 8 channel audio decoding for any source material at the highest quality
- Excellent frequency response and superb sonic performance for the highest standard such as SACD and DVD-Audio
- Reduces the amount of cabling needed towards the video display
- Matching the performance characteristics of the subwoofer to the main speaker system
- Allows independent audio control in a second room
- For a powerful and immersive surround sound listening experience over headphones
- Reduces vibration and provides a more accurate disc reading resulting in optimized sound and picture quality
- Full system integration flexibility and total control by using one remote handset

Technological glossary:

Power and performance

The SR4500 features a fully discrete 7 channel amplifier section delivering 80 watts of high-current amplification and includes a full selection of performance and convenience features.

Endless enjoyment is available at the touch of a button, AM/FM tuner with 50 station preset memory and full remote control operation. In audio mode, the source direct function is extremely efficient for optimized clarity and detailed musical reproduction. It bypasses the entire A/V section, including the D/A and A/D conversions to realize the shortest signal path, for minimal interference and disturbance by radiated electrical or magnetic fields. The SR4500 also includes 7.1-channel pre-amp outputs, providing a ready upgrade path to a more powerful home theater system using external amplifiers. The large power supply incorporates a high current power transformer, with ample capabilities to drive low impedance loudspeakers.

Latest surround technologies

The SR4500 incorporates the most advanced 32-bit Digital Signal Processing circuitry decoding the latest generation of digital surround sound such as Dolby Digital EX, DTS ES, DTS Neo:6, Circle Surround II, and Dolby Pro-Logic IIx. The receiver provides an enveloping 7.1 channel playback of any multi-channel program, whether it's movie soundtracks or music, over the widest possible seating area.

Dolby Digital EX

Dolby Digital EX brings a new dimension of depth, spacious ambience and sound localization to home theater environment. The benefits of DD-EX include more realistic flyover and fly-around effects, a more stable image for atmospheres and music and a more consistent surround effect throughout the auditorium or home viewing area.

DTS-ES

The DTS-ES surround system offering a superb sound quality and a range of formats. The Discrete 6.1 offers the ultimate quality of surround field creation, while the Matrix 6.1 provides compatibility for the existing DTS 5.1 software. And the Neo:6 is to create 6.1 surround stage from any two channel source. DTS 96/24 allows for 5.1 channel sound track encoding at a rate of 96kHz/24 bits on DVD-Video titles. Higher sampling rates provide greater bit depth and allow a wider frequency response. In conjunction with the use of anti-alias and reconstruction filters DTS 94/24 results in a more transparent sound quality equivalent to the original soundtrack and is fully backwards compatible at the same time.

Eight channel audio from any source

Pro Logic IIx is the first and only technology to process any native stereo or 5.1 signal into a 6.1- or 7.1- channel output. A product of Dolby's expertise in surround sound and matrix decoding technologies, Dolby Pro Logic IIx is a complete surround sound solution that maximizes the entertainment experience from stereo as well as 5.1-channel encoded sources. On playback systems with four surround speakers, the result is a more seamless, natural, and enveloping listening experience on everything from stereo music CDs to DVDs encoded in Dolby Digital Surround EX. Until now, processing stereo and 5.1 program sources into 6.1 or 7.1 output channels necessitated that the A/V receiver include a variety of decoders, often from different developers. In contrast, Dolby Pro Logic IIx decoding does it all, offering a single upgradeable solution for the home theater enthusiast who wants to go from 5.1 channels to 6.1 and 7.1. Dolby Pro Logic IIx technology features Movie and Music modes that function with 5.1 as well as stereo sources, including 24-bit/192kHz and 24-bit/96kHz sources. The Game mode restores the impact low-frequency surround effects by routing them to the system's subwoofer. Dolby Pro Logic IIx technology delivers a natural and immersing 7.1-channel listening experience to the home theater environment.

SRS TruSurround XT Headphone

The TruSurround XT Headphone technology provides a surround sound listening experience over headphones. When listening to multichannel content such as DVD movies over headphones, the listening experience is fundamentally different than listening to speakers. Since the headphone speaker drivers are covering the pinna, or outer part of the ear, the listening experience differs greatly from traditional speaker playback. TruSurround XT uses patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. TruSurround XT Headphone also delivers exceptional 3D audio from mono and stereo material.

Simple video conversion

SR4500 is equipped with a simple but useful video conversion. It can up convert the S-Video signal to composite and composite to S-Video. This feature reduces the amount of video cabling needed to connect all different video sources to your display or projector.

Experiencing the emotion

Music and sound track reproduction is enhanced through a highly efficient source direct switch, which bypasses the total A/V section in audio mode. In direct mode, interference and disturbance by radiated electrical or magnetic fields are minimized, ensuring the shortest signal path for the highest degree of clarity and detail. Highly accurate 192kHz/24-bit audio D/A converters process the analog to digital conversion, resulting in a far more faithful sound quality compared to the original source. It encompasses the Marantz heritage with refinements such as a metal alloy faceplate, a efficient video off mode and high grade components.

Adjustable cross-over

The SR4500 AV receiver provides a choice of several crossover frequencies. This lets you 'fine tune' the speaker system by selecting the optimum frequency to ensure a match of the performance characteristics of the subwoofer to the main speaker system

Convenience & functionality's

The SR4500 is equipped with a 2 Component input terminals to connect your video source through the centre of your home entertainment. It provides one touch switching of video and audio source with a high quality reproduction. It features heavy duty speaker binding posts and several both analog and digital in-outputs. In addition an extensive feature list, such as auto preset tuning (program up to 50 stations), manual station naming, front panel cursor control, delay function and clock/timer characterize the functionality of the SR4500. With the Marantz audio system placed in the main room of the house, a second pair of loudspeakers can be placed at a separate room. In second room the volume can be adjusted independently from the main room.

In Marantz style

To control entire system with one remote handset, Marantz has designed the D-Bus system. The unique Marantz D-Bus connection allows convenient linkage to other Marantz components Individual devices inform each other and remote control commands are communicated via this bus line. The SR4500 comes with an easy to use pre-coded remote control, for full intuitive and extensive system control.

Bypacked accessories

- User manual
- Power cable
- Remote control
- Batteries
- FM antenna
- AM loop antenna

RC5500SR



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FEATURES

MULTICHANNEL SURROUND

THX Ultra II / Select	-/-
THX Surround EX	-
DTS 5.1 / -ES / 96/24	●/●/●
Dolby Digital / Dolby Digital-EX	●/●
DPL / DPL II / DPLiix	●/●/●
Circle Surround II	●
Virtual Surround	●
Multi Channel Stereo	●
HT-EQ / Re-EQ	●/-
Other Surround Modes	-
Headphone Surround	TruSurround Headphone
Auto Surround Mode Detection	●
HDCD Decoder	-
WMA Pro / WMA / MP-3 decoder	-/-/-

SOUND ENHANCEMENTS

Current Feedback Topology	-
Real full channel power drive (70%)	●
Discrete Amplification (All)	●
Pure Direct	●
Power Transformer: Super Ring/Toroidal/EI	-/-/●
Linear Drive Power Supply (LDPS)	●
Copper Plated Chassis	-
D/A Conversion: 192kHz/24-bit / 96kHz/24-bit	●/-
Digital Signal Processing: 24-bit / Precision 32-bit Decoding / 32-bit / 64-bit	-/-/●/●
Adaptive Double Differential Control/Quad differential DAC	-/-
Bi-amp drive (5.1 ch setting)	-
Video Off	-
System block shielding: Copper / Metal	-/-
High Grade Audio Components	-
Customised Components	-
HDAM	-
HDAM: Standard / SA / SA2/	-/-/-/-
Current Feedback	-
HDAM cover: Gold plated / Copper plated / Metal / no shield	-/-/-/-
Intelligent Silent Cooling system	-
Chassis : Die-cast / Copper plated / Metal	-/-/●
Chassis Stabilisation Bracing	-
Double Layer Bottom Plate	-

OTHERS

MRAC (Marantz Room Acoustic Corrections)	-
Easy setup	●
On Screen Display: main / multiroom	-/-

Variable cross over	●
Front panel cursor control	-
Video conversion	● (CVBS < > S)
Line memory (video conversion)	-
Analogue down mix	-
Multiroom: Shared source / multi source	●/-
Multiroom zones	-
Speaker A/B	-
Double tuner	-
GYRO Touch Tuning	-
DSD direct conversion	-
Lip sync control	-
Random Tuner Presets	50
RDS: PTY/PS/CT/TA/TP	●/●/-/-/-
Auto TV Switching (On/Off)	-
Discrete RC coding	-
Bi-directional remote control	-
Low Noise LCD display	-
Software Upgradable (RS-232)	-
Bi-directional control via RS232C	-

IN/OUTPUTS

VIDEO	
Composite In/Out (incl monitor out)	4/3
S-Video In/Out (incl monitor out)	2/2
Component In/Out	2/1
Gold Plated In/Out (Cinch)	-
Scart In/Out	-
DVi in/out	-/-
HDMI in/out	-/-
Video processing extension port	-
Multi-Room Video Out: CVBS / S-Video / Component / other	-/-/-/-

AUDIO

Analogue In/out	7/4
Digital Optical In/Out	2/1
Digital Coaxial In/Out	2/1
Multichannel USB	-
IEEE 1394 input (Audio)	-
Gold Plated In/out	-
Multi-Room Audio Out	-
Pre- Amplifier Out (channels)	7.1
Main Amplifier In	-
Multichannel in channels	7.1
Multi-Channel In	1
Headphone Out	●

OTHER

Speaker Terminal: Gold plated screw / regular screw (all)	-/●
Multi-Room Speaker Terminal	●
Multi-Room D.Bus In/Out	-
D.Bus In/Out	-
External IR In / Emitter Out	-/-
IR Flasher In	-

RS232C	-
DC Triggers	-
AC Outlets (Not for UK Model)	●
Front Inputs: Audio / Composite / S-Video / Digital (Opt)	-/-/-/-

SPECIFICATIONS

AUDIO SECTION

Power Output (8/4 Ohm RMS)	80/- Watts
D/A Converter	CS42428
Digital Signal Processor	CS494003
Signal to Noise Ratio	*
Frequency Response (Analogue In)	10Hz to 100kHz (+/- 3dB)
Frequency Response (Dig In)	5Hz to 45kHz (+/- 3dB)*
Total Harmonic Distortion (THD)	0.05%*
Stereo separation	70 dB (kHz)*
Input Sensitivity/Impedance	168 mV / 47 kOhms*

TUNER SECTION FM

Frequency Range	87.5 - 108.00 MHz
Signal to Noise Ratio (mono/stereo)	75/70 dB
Distortion mMono/stereo	0.2 / 0.3 %
Channel Selectivity	+/- 300 kHz / 60 dB
Usable Sensitivity	IHF 1.8 uV / 16.4 dB
Channel Separation	1 kHz 45 dB

TUNER SECTION AM

Frequency Range	531 - 1602 kHz
Signal to Noise Ratio	50dB
Distortion	400Hz, 30%mod 0.5 %
Channel Selectivity	+/- 20kHz 70 dB
Usable Sensitivity	Loop 400 uV

VIDEO SECTION

Input level/impedance	1 Vp-p / 75 ohm
Output level/impedance	1 Vp-p / 75 ohm
Video frequency response	5-30MHz
Component video frequency response	5 to 80MHz*
Signal to Noise Ratio	60*

GENERAL

Available colors: Platinum/Gold/Silver/Black	-/-/●/●
Metal Front Panel	●
Remote Control	RC5500SR
System Remote Control: Pre-programmed / Learnable / Touch Screen	●/-/-
Power Consumption	388 Watts
Detachable Power Cable	●
Maximum Dimensions (W x D x H)	440 x 388 x 162 mm
Weight	12 kg

Design and specifications are subject to change by Marantz without notice.

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