

# marantz®

## AV Receiver

### SR8500



### SR8500 THX Select AV Receiver

With superior audio performance and state of the art featuring, the Marantz SR8500 is a true centerpiece in any AV system. The receiver incorporates the latest generation of digital surround decoding technology with automatic selection. Our own Marantz Room Acoustic Calibration automatically optimizes the sound to the room and the DV-i digital video switching capability ensures that the highest video quality is activated when required. Accompanied by a learnable remote control the SR8500 takes you on a journey of passion and enjoyment in both music and movie productions. You'll experience a wider frequency response and greatly improved aural characteristics along with outstanding user friendly navigation and control.

## NEW



R A N G E S E R I E S

because music matters

## Features

- Innovative 32-bit Digital Signal Processing with THX Surround EX, DD-EX, DTS-ES and DPL IIx
- Wide range full discrete 7 channel Current Feedback power amplifiers
- Top grade audio components, toroidal transformer and copper plated chassis
- Marantz Room Acoustic Calibration
- DV-i video switching without signal distortion
- Video conversion
- Firmware update through RS-232C port
- Multi room / multi source system
- Dolby headphone

## 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 SA-CD and DVD-Audio
- To ensure the renown premium Marantz sound reproduction in multichannel and stereo
- The best sound for your room - automatically
- For a high quality, full band width, uncompressed digital video signal transmission to a Marantz HD display or projector
- The highest analogue quality from all sources connected via a single component connection
- Make today's receiver for tomorrow's standard ready
- Allows independent audio and video source selection and control in a second room
- Full multichannel enjoyment via your regular stereo headphone

## Technological glossary:

### Unrivaled home entertainment

The SR8500 represents cutting-edge technology and innovation with several unique Marantz sound enhancements and features. The new generation of Marantz AV receivers are stylish and completely symmetrical. On the front panel of the SR8500, buttons are kept to a minimum. The source selector and volume controls are intuitively placed. The cursor leaf on the hidden panel can be used as a navigator through most of the functions of the SR8500 to be operated via the front panel. The Multitude of surround decoders provides uncompromised 6,7 or 8 channel playback of any multi-channel program, whether it's movie soundtracks or music, over the widest possible seating area. With a fully discrete Current Feedback amplifier section capable to deliver 110 watts of high-current amplification, the SR8500 delivers a continuously clean and stable power into each of the seven channels. Designed and engineered with extensive feed-back from custom installation experts, dealers and consumers, the SR8500 versatility is taken to a new stunning level. An easy-to-use programmable, learning remote control allows full access to all of the operating functions and can be used for system operation as well.

### Latest surround technologies

The SR8500 incorporates the most advanced 32-bit Digital Signal Processing circuitry decoding the latest generation of digital surround sound such as THX Surround EX, 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.

### 8channel 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 systems' subwoofer. Dolby Pro Logic IIx technology delivers a natural and immersing 7.1-channel listening experience to the home theater environment.

### Current Feedback power amplification

The SR8500 features a fully discrete 7 channel amplifier section capable of delivering 110 watts of high-current amplification, for continuously clean and stable power into each of the 7 channels. It employs a massive toroidal power transformer in combination with high grade oversized filter capacitors. Current Feedback amplification is a well known, Marantz' original circuit technology accomplishments from the HiFi amplifier field. Due to the introduction of Super Audio (Super Audio CD, DVD-Audio) multi-channel software and an increasing amount of universal disc players, AV Receiver/ amplifier require a higher performance amplifier not only for digital surround sound from DVD Video via the digital input, but also for analog multi-channel. Even in the DVD Video world the amount of higher quality software increases with formats like DTS 96/24.

The Current Feedback amplifier technology fits perfectly with the high requirements set for this Super Audio software providing wide-bandwidth, high-speed reproduction. The impedance at the Current Feedback point is limited resulting in a very low phase shift. The SR8500 therefore can keep the phase compensation via Negative FeedBack (NFB) to a minimum, resulting in high through-rate, excellent transient response and superb sonic transparency for the full bandwidth up to 100kHz.

### Digital video interfacing

If you want the best you need a digital video connection. Whether you're watching a ball game or an action-packed movie in high definition, without question, the picture quality is stunning. It could be better, though. For high definition all digital video to look its best, the data must be transferred from your digital source to your HD display or projector in pure digital form. For you to take full advantage of the AV control facilities of the SR8500 we have included the DVI switching facility. The DVI-D inputs and output on the SR8500 are a pure digital high bandwidth video interface. What you see on your screen is exactly what was digitally recorded. You'll enjoy a razor sharp picture with incredible detail and vibrant, natural colors.

### Video conversion

SR8500 is equipped with a high quality video conversion. It can up convert the Composite signal to S-Video/Component and S-Video to Component; as well as down conversion from S-Video to composite (the component signal is not down converted). This feature allows you to connect the best possible video cable between the SR8500 and the display and of course you only need one. In order to avoid synchronization and eroded video quality problems, the SR8500 has a high quality video converter equipped with digital video processing consisting of for example; 4H line memory, time based corrector, a triple 10-bit DAC, filed locking, VCR detection and anti aliasing filtering. The SR8500 provides you the highest analogue quality from all sources connected via a single component connection.

### Marantz Room Acoustic Calibration

Based on our room acoustics knowledge and expertise already shown in products like the AX1000 we have developed the Marantz Room Acoustic Calibration (MRAC). The algorithms developed are derived from this amazing AV computer developed more then a decade ago. Taking into account reflections from walls, ceiling and floor and knowledge about psycho acoustics, MRAC optimizes the sound for the room acoustics. The SR8500 is one of the first new generation Marantz receivers which is to feature the new MRAC function. With the supplied microphone placed on your listening position, the powerful DSP analyzes accurately and sets the sound configuration for your listening room. MRAC can tests and controls speaker configuration, trim, distance/delay and frequency response.

### A touch of Marantz

The strength of each Marantz design can be found in the attention to detail and cohesiveness of the different elements. The SR8500 is a clear example of benchmark engineering and craftsmanship and features a number of Marantz sound enhancements like Current Feedback topology amplification which makes the power amplifier insensitive to (difficult) loudspeaker loads. It incorporates leading edge digital signal processing, along with a Crystal 192 kHz/24 bit D/A converter in each of the seven channels. All of the digital, analogue and control circuits are separated and extensively shielded in their own enclosures to prevent cross-talk and other unwanted interference. Independent power supplies for the FL display, audio and video sections secure maximum separation, clarity and dynamics. Hand-selected high grade customized components, gold-plated terminals and a copper plated chassis all work in harmony. It employs an extensively braced and shielded, massive toroidal power transformer in combination with customized oversized filter capacitors. To achieve a top-notch competitiveness Marantz has also designed a new intelligent cooling system and a high efficiency heatsink.

### At the heart of Customised home installation

The SR8500 is equipped with a multitude of Component 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 and feeds useful information onto the screen via the user-friendly OSD. It features multi room/multi source, speaker A/B switching, 2 assignable DC triggers, 2 flasher inputs, a RS232c communication port, high grade - heavy duty - speaker binding posts and an extensive array of both analog and digital in-outputs. With 7 assignable digital inputs (8 in total), 4 component inputs, SACD Multi-Channel (7.1 channel) direct inputs and a multi room speaker and OSD output versatility is taken to a new stunning level. With the Marantz audio system placed in the main room of the house, a second pair loudspeakers can be placed at a separate room. Not only sound but even video signals can be handled in such a way that in the separate room a video source with OSD feature can be selected.

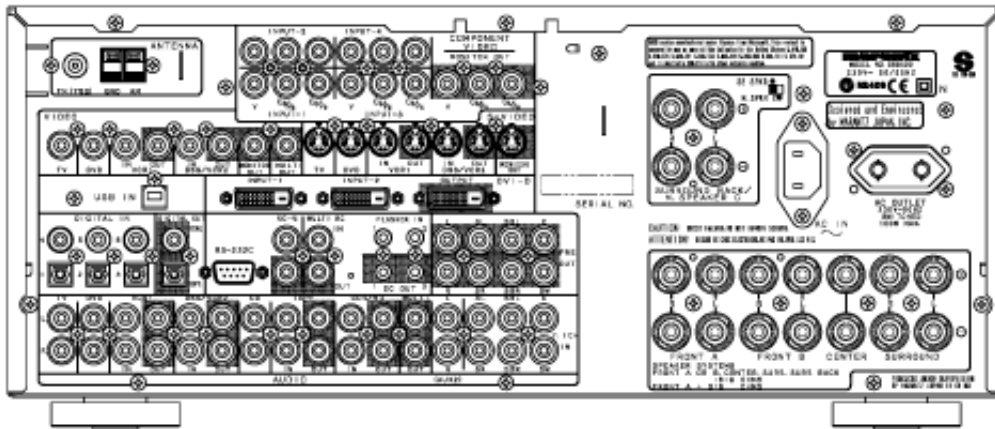
## Bypacked accessories

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

## RC1400



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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 Dolby Heaphone	•
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 (CVBS < > S < > conversion	•
Line memory (video conversion)	•
Analogue down mix	•
Multiroom: Shared source / multi source	-/•
Multiroom zones	1
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)	5/3
S-Video In/Out (incl monitor out)	5/3
Component In/Out	4/1
Gold Plated In/Out (Cinch)	•
Scart In/Out	-
DVI in/out	2/1
HDMI in/out	-/•
Video processing extension port	-
Multi-Room Video Out: CVBS / S-Video / Component /other	•/•/•/•

**AUDIO**

Analogue In/out	8/4
Digital Optical In/Out	4/1
Digital Coaxial In/Out	3/1
Multichannel USB	-
IEEE 1394 input (Audio)	-
Gold Plated In/out	•
Multi-Room Audio Out	1
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	2
RS232C	•
DC Triggers	2
AC Outlets (Not for UK Model)	•

**SPECIFICATIONS**

**AUDIO SECTION**

Power Output (8/4 Ohm RMS)	110/- Watts*
D/A Converter	CS4382
Digital Signal Processor	CS494003
Signal to Noise Ratio	103 dB *
Frequency Response (Analogue In)	5Hz 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 dBf *
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	silver only
Metal Front Panel	•
Remote Control	•
System Remote Control: Pre-programmed / Learnable /Touch Screen	•
Power Consumption	•
Detachable Power Cable	•
Maximum Dimensions (W x D x H)	440 : 100 mm. *
Weight	*

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

[www.marantz.com](http://www.marantz.com)

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