

marantz®

AV Receiver

SR7500



Also black available

SR7500 THX Select AV Receiver

According traditional Marantz trademarks, the SR7500 is a non compromise digital surround receiver, built to excel in movie and music reproduction, functionality and ergonomics. It supports all the latest multichannel decoding formats for an impressive, enveloping 360 degree surround sound. Our own Marantz Room Acoustic Calibration automatically optimized the sound to the room. Independent power supply circuits are incorporated for the FL display, audio and video sections for maximum separation, clarity and dynamic range. Together with specially selected high grade components, all elements work in harmony to recreate the emotion, exactly as the artist had intended.

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
- Marantz Room Acoustic Calibration
- Video conversion
- Sound delay function (LipSync)
- High grade audio components
- 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 SACD and DVD-Audio
- The best sound for your room - automatically
- The highest analogue quality from all sources connected via a single component connection
- Synchronizing the audio and video signal
- To ensure the renown premium Marantz sound reproduction in multichannel and stereo
- 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:

Performance to excite

The SR7500 incorporates the latest generation of digital surround sound decoding technology. In addition, Marantz has focused on the future. By utilizing pre-out jacks, 7.1 direct inputs and a RS-232C communication port, the SR7500 is tomorrow's technology, today! The SR7500 incorporates the latest in advanced Digital Signal Processing circuitry, along with a Crystal 192 kHz/24 bit D/A converter in each of the 7 channels. The SR7500 features a discrete, equal power amplifier section for all 7 channels, with superb low impedance driving capability and comprehensive dynamic reserve. A multi-zone function allows you to simultaneously enjoy a different entertainment source in another room. Complemented with an extensive programmable learning remote control, the SR7500 is the ideal choice in every home entertainment system.

Latest surround technologies

The SR7500 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.

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.

Surround soundheadphone

Dolby Headphone technology allows users to listen to music, watch movies, or play video games with the dramatic surround effects of a 5.1-channel soundtrack through any set of headphones. Best of all, "listener fatigue," a phenomenon commonly associated with headphone playback, is replaced by a spacious, natural sound field that listeners can enjoy for hours.

Current Feedback power amplification

The SR7500 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 SR7500 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.

Video conversion

SR7500 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 SR7500 and the display and of course you only need one. In order to avoid synchronization and eroded video quality problems, the SR7500 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 SR7500 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 than 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 SR7500 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. The Marantz Room Acoustic Calibration achieves the ideal sound field for each and every room.

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 SR7500 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. Specially selected high grade components ensure the acclaimed Marantz sound quality. This design configuration is capable of a clear and powerful reproduction of the most demanding action movie soundtracks and full range (multi channels) music discs. Its ability to generate very high output voltages enables it to drive the most demanding speakers with optimum results.

Matching audio and video

The digital processing and scaling of video displays can create a slight delay in the video signal. This delay makes audio tracks appear out of synch. Using sound delay you can slow the sound presentation to match the presentation of the video. The Sound Delay on the SR7500 adjusts in increments of 10ms steps from 0 –200ms.

At the heart of customised home installation

The SR7500 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 loud speakers can be placed at a separate room. In those rooms separately an audio source can be selected at a different sound level, even with full remote controlled functionality. 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.

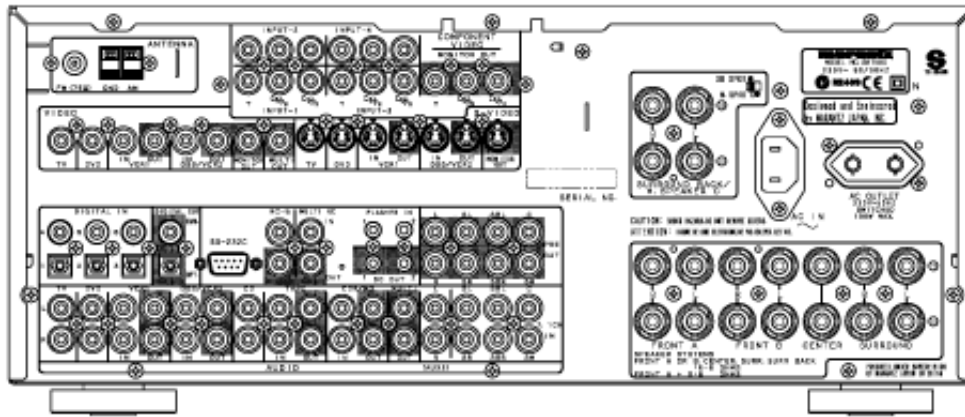
Bypacked accessories

- 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 / DPLiX | •/•/• |
| 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 Accoustic Corrections) | • |
| Easy setup | - |
| On Screen Display: main / multiroom | •/• |
| Variable cross over | • |

| | |
|---|-----------------------|
| Front panel cursor control | • |
| Video | • (CVBS <> S <> Comp) |
| 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 | -/• |
| 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) | • |
| Front Inputs: Audio / Composite / S-Video / Digital (Opt) | •/•/•/• |

SPECIFICATIONS

AUDIO SECTION

| | |
|----------------------------------|--------------------------|
| Power Output (8/4 Ohm RMS) | 105/- 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 | -/•/• |
| Metal Front Panel | • |
| Remote Control | RC1400 |
| System Remote Control: Pre-programmed / Learnable /Touch Screen | •/•/- |
| Power Consumption | * |
| Detachable Power Cable | • |
| Maximum Dimensions (W x D x H) | 440 x 463 x 186.mm * |
| Weight | * |

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

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