

marantz®

STEREO CONTROL AMPLIFIER SC-7S1
MONAURAL POWER AMPLIFIER MA-9S1



What Legends are made of.....

We'll never forget the impact the introduction of the Marantz Model 7 and Model 9 had on the industry more than 40 years ago. These models fused original circuit design with rational thinking and aesthetic appeal. Not only did these models help establish the Marantz name and brand in the audio world, but also influenced the direction that audio evolution has taken ever since. Today, the Model 7 and Model 9 remain an industry standard and have secured a place in the analog era. They continue to be the audio components of choice by many people. Their rebirth is not for nostalgia's sake, but pride and pleasure. The Model 7 and Model 9 live again, a celebration to their essence.

That the Model 7 and Model 9 are still sought-after-components is a testament to the fact that even though musical sources may have changed, thoughtful design and engineering continue to endure, defying the laws of music and audio history. Reviving these two numbers will once again enrich audio history.

The distinctive voices of the Model 7 and the Model 9 have been reborn in the SC-7S1 and MA-9S1. Each draws out the musical potential of, for example, Super Audio CD and has therefore the capability to superbly reproduce musical formats of the future.

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stereo control amplifier sc-7s1



power

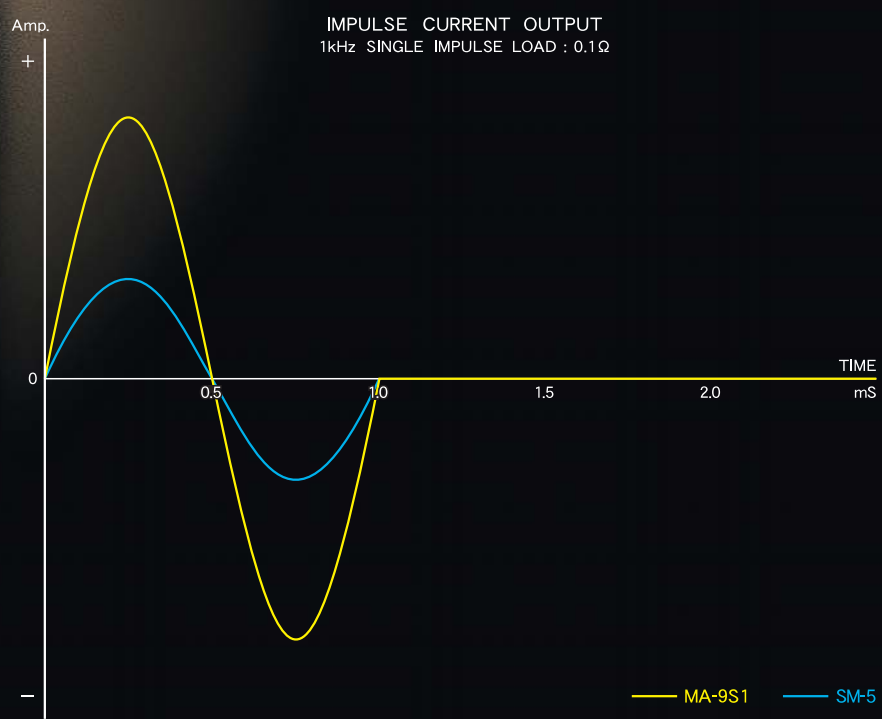
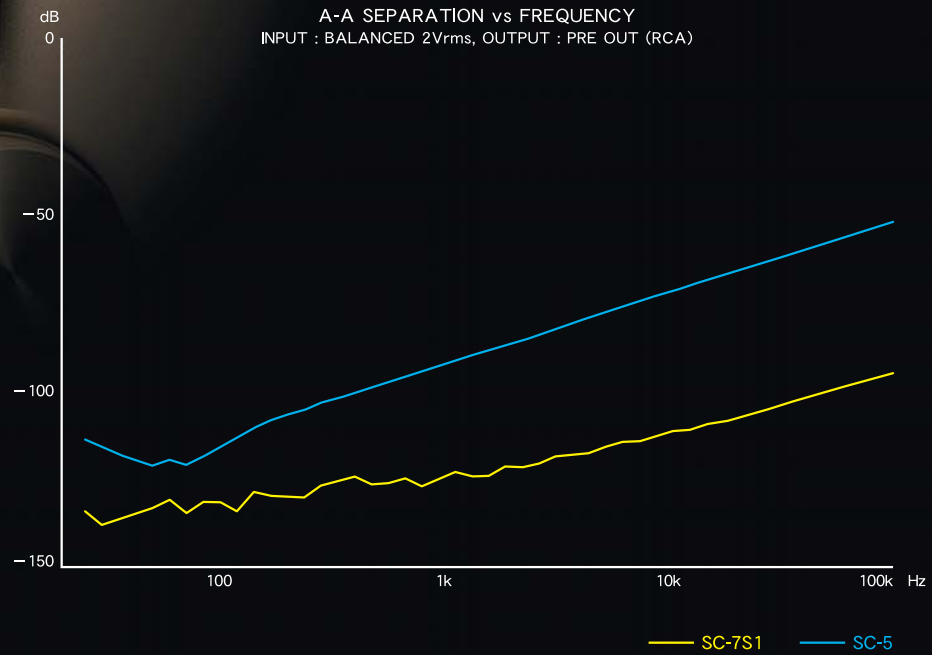
Improvements while maintaining original integrity include:

- Enhancement of channel separation in the high frequency range
- Significant reduction of cross talk
- Low impedance drive capability
- High-speed signal handling capability
- High instantaneous current delivery capability
- Highest reproduction capability for super wide range & dynamic range audio.

Even in this technological era you will understand why we've assigned the numbers 7 and 9 to the nameplate of these products. You will recognize their distinct voice when you listen to them.

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marantz *Stereo console*

SC-7S1

Multi-channel audio has come of age and Super Audio sets the standard. We have produced the SC-7S1, a new control amplifier inspired by the legendary Model 7, which long reigned supreme as the ultimate performer in its class. The capabilities of the SC-7S1 are inherited from one of the original components of audio perfection.



Right
Only

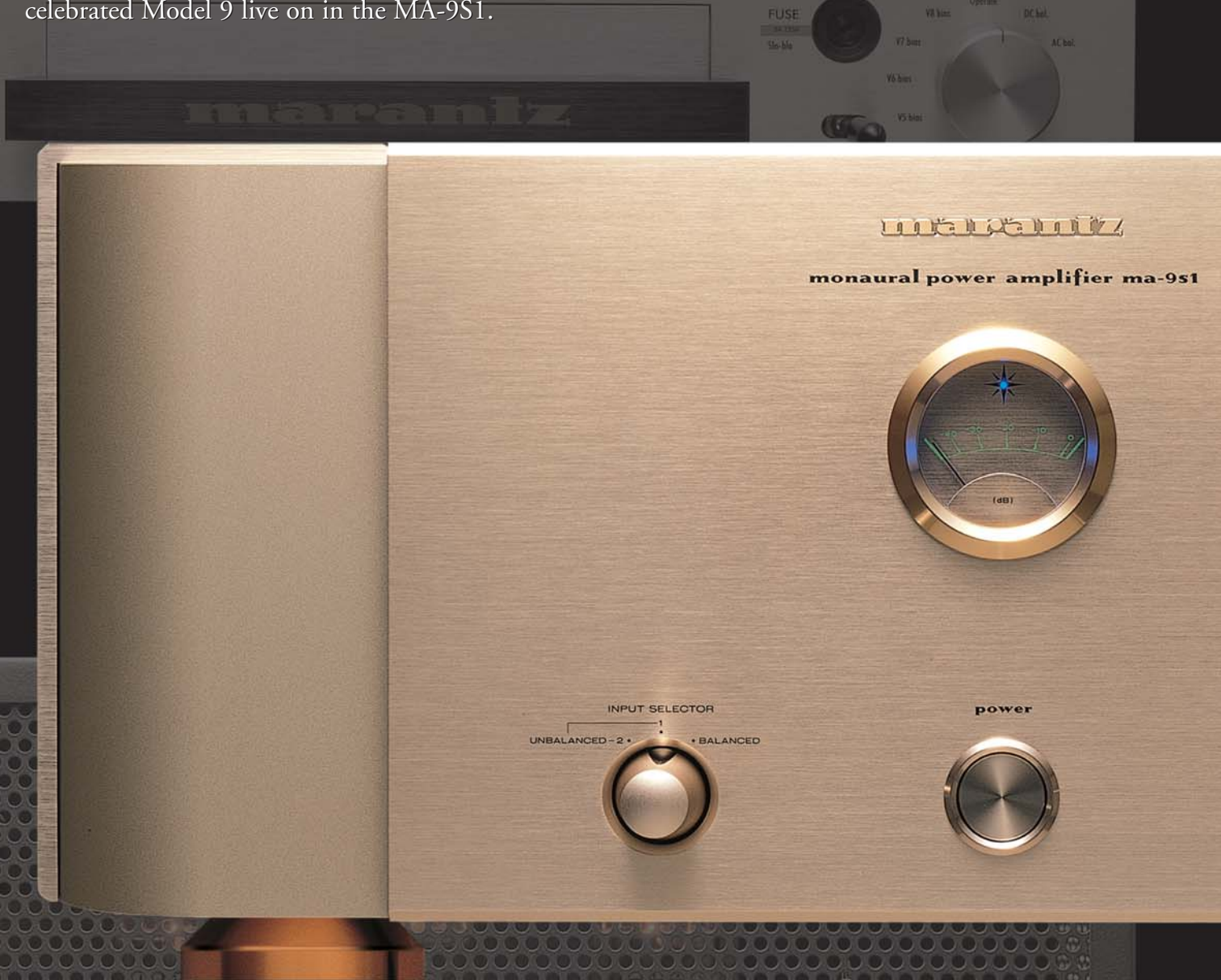


Model 7

Introduced in 1958, this legendary stereo control amplifier was intended to be used by professionals and music lovers. Our founder, Saul B. Marantz, therefore included frequency equalization for all analog disc formats available at that time. The philosophy behind the circuitry design and the special attention to even the smallest (component) details are still, even after more than 45 years, inspiring our engineers.

MA-9S1

The pure blue indicator is faithful to the tradition of the legendary Marantz brand. The MA-9S1 is the ultimate monaural power-amplifier for driving even the most demanding speakers with absolute ease. It represents the perfect balance between new-age innovation and traditional quality, and verifies that our pioneering ideas of the celebrated Model 9 live on in the MA-9S1.



Model 9

A legendary monaural power amplifier, introduced in 1961, utilized EL34 tubes in an ultra linear parallel push-pull design. It delivered an incredibly high output power, which became the reference benchmark for its time. It was also the first model to carry on its front panel, what has become the traditional and recognizable Marantz meter.

Stereo Control Amplifier

SC-7S1

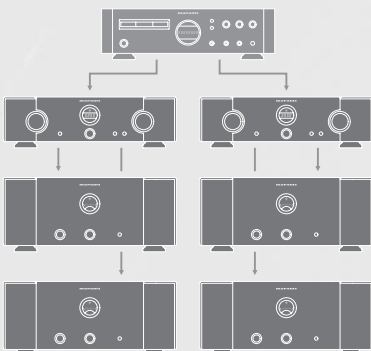


The concept: channel separation for super wide range & dynamic audio

We think it's of the utmost importance to extend high frequency response as well as channel separation so you can hear the true meaning of "Super Audio." This is why we have designed the input and output circuitry, volume control section, and power supply circuits according to this philosophy. The result: an astonishing channel separation of over 100dB at 20kHz.

Floating control bus system

We make it possible to synchronously drive two or more control amps by using a floating control bus system connected to as many as 6 sets of control amplifiers. We also enable you to trim levels using the remote control, making it easy to set up the optimal sound field on a multi-channel configuration. The highest achievable stereo performance can be accomplished when a system configured with two sets of SC-7S1 and four sets of MA-9S1 are connected in a bi-amped mode. You will experience superb sound with unbelievable channel separation.



Fully balanced control amp with an 8-gang linear volume control

The SC-7S1 is a full balanced, two-channel control amp providing the channel separation you need for Super Audio. Based on our own high quality four-gang active volume control we have developed an even better eight-gang linear control volume that reduces gang errors from 0 to 100dB, ± 0.5 dB. By adding an additional HDAM SA* (High Definition Amplifier Module), we improved the Common Mode Reject Ratio (CMRR) dramatically, attaining an incredible ultra-wide frequency band of 150kHz and succeeded in producing the perfect control amplifier for Super Audio CD.

Choke input system

In the power supply section, the choke input topology was adopted to drastically reduce rectifier harmonic noise. This system is especially suitable for a control amplifier in which very small signal amplification occurs.

*HDAM SA

The feedback impedance of the Current Feedback circuit was reduced to its minimum to make it faster. We developed a new High Definition Amplifier Modules (HDAM), a separated module operating as a buffer for the amplifier. The SC-7S1 has four HDAMs on each input-output buffer and another four units on the V/I converter.



Monaural Power Amplifier

MA-9S1

**Instantaneous current
delivery capability**



Fully balanced monaural power amp

To minimize the influence of strong “return current” occurring from the loudspeaker system, the circuit for the power amp consists of two amplifiers giving a voltage gain amp of 23dB, in a 3 paralleled push-pull balanced construction, for the final buffer amp of 6dB.

Choke input system

The power supply of the voltage gain amplifier’s adopted choke input system has few ripples and is durable with load changes. This can prevent noise from the amplifier as well as reduce noise from the primary winding, resulting in a clean power supply.

Ultra low impedance amplifier

The buffer amplifier’s power supply block, which supports the high current delivery capability, uses a capacitance input system to realize very low impedance. The Super Ring power transformer, the low impedance electrolytic capacitors, the very large gauge internal wiring, and the thick pattern PCB all contribute in supplying the required power.

Even if amplifiers have the same power specifications, their performance may not be the same due to a difference in current delivery capability. The delivery capability of a power amplifier depends on how instantaneous the current supply is. That’s why the power supply for the MA-9S1 was completely revamped to give it a truly instantaneous current supply capability that has been increased three times as much compared to any Marantz product designed before.

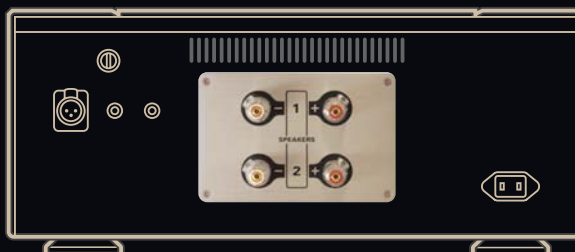
SC-7S1 Stereo Control Amplifier



| | | |
|-------------------------------|--------------|--------------|
| Rated output (20Hz - 20kHz) | 1.7V | (Balanced) |
| | 1.7V | (Unbalanced) |
| Maximum output (20Hz - 20kHz) | 13.5V | (Balanced) |
| | 13.5V | (Unbalanced) |
| THD (20Hz - 20kHz) | 0.0015% | (Balanced) |
| | 0.003% | (Unbalanced) |
| Frequency Response (+0, -3dB) | 3Hz - 150kHz | (Balanced) |
| | 3Hz - 150kHz | (Unbalanced) |
| Input sensitivity/impedance | 420mV/20kΩ | (Balanced) |
| | 420mV/20kΩ | (Unbalanced) |
| Output impedance | 220Ω | (Balanced) |
| | 220Ω | (Unbalanced) |
| S/N (IHF-A) | 103dB | (Balanced) |
| | 105dB | (Unbalanced) |
| Channel separation | >100dB | (Balanced) |
| | >100dB | (Unbalanced) |


| | | |
|--------------------|---|-----------------|
| Volume control | -∞, -100-0dB | (0.5dB steps) |
| Channel level trim | ±6dB | (0.5dB steps) |
| Attenuation | -20, -40, -60, -∞ | |
| Inputs/Outputs | Balanced input | x1 |
| | Unbalanced inputs | x3 |
| | Tape in/out | x1 |
| | Balanced output | x1 |
| | Unbalanced outputs | x2 |
| Power supply | 120V 60Hz | |
| Power consumption | 18W | |
| Maximum dimensions | Width | 459mm / 18" |
| | Height | 136mm / 5 1/8" |
| | Depth | 441mm / 17 1/8" |
| Weight | 21 Kg / 46.3 lbs. | |
| Accessories | AC mains lead, remote cable | |
| | Remote controller(RC-7S1SC), AAA battery (x2) | |

MA-9S1 Monaural Power Amplifier



| | | |
|-----------------------------------|-------------------------|--------------|
| Rated output (20Hz - 20kHz) | 300W | 8Ω |
| | 600W | 4Ω |
| THD (20Hz - 20kHz, 8Ω) | 0.01% | |
| Output range (8Ω, 0.05% THD) | 5Hz - 55kHz | |
| Frequency Response (1W, 8Ω) | 3Hz - 120kHz (+0, -3dB) | |
| Damping Factor (20Hz - 20kHz, 8Ω) | 200 | |
| Input sensitivity/impedance | 1.7V | (Balanced) |
| | 1.7V | (Unbalanced) |
| S/N (IHF-A) | 120dB | (Balanced) |
| | 120dB | (Unbalanced) |
| Voltage Gain | 29dB | (Balanced) |
| | 29dB | (Unbalanced) |

| | | |
|--------------------|------------------------|------------------|
| Attenuation | 0, -3, -6, -9, -12, -∞ | |
| Inputs/Outputs | Balanced input | x1 |
| | Unbalanced inputs | x1 |
| | Speaker output | x1 |
| Power supply | 120V 60Hz | |
| Power consumption | 450W (minimum) | |
| Maximum dimensions | Width | 459mm / 18" |
| | Height | 198mm / 7 7/16" |
| | Depth | 451mm / 17 3/16" |
| Weight | 35.8 Kg / 78.9 lbs. | |
| Accessories | AC mains lead | |

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