

# marantz®

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



because music matters

# What Legends are made of.....

We'll never forget the impact the introduction of the Marantz Model 7 and Model 9 had in 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 analogue era. They continue to be 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 enrich audio history again.

The distinctive voices of the Model 7 and the Model 9 have been reborn in the SC-7S1, 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.

Improvements while maintaining original integrity include:

- Enhancement of channel separation in high frequency range
- Reduction of cross talk
- High speaker driving 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 the distinct voice when you listen to them.

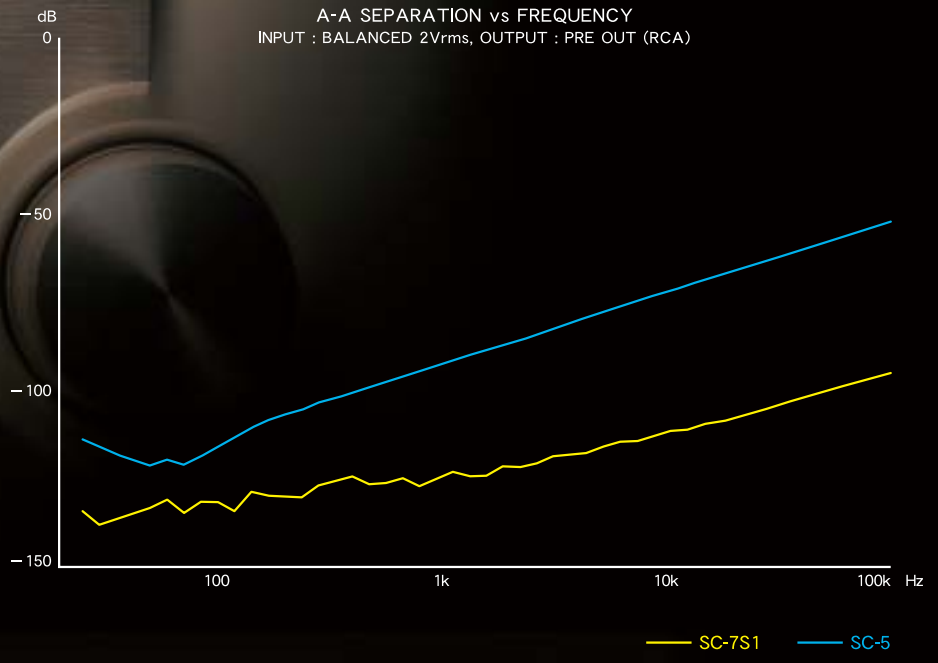
marantz  
stereo control amplifier SC-7S1



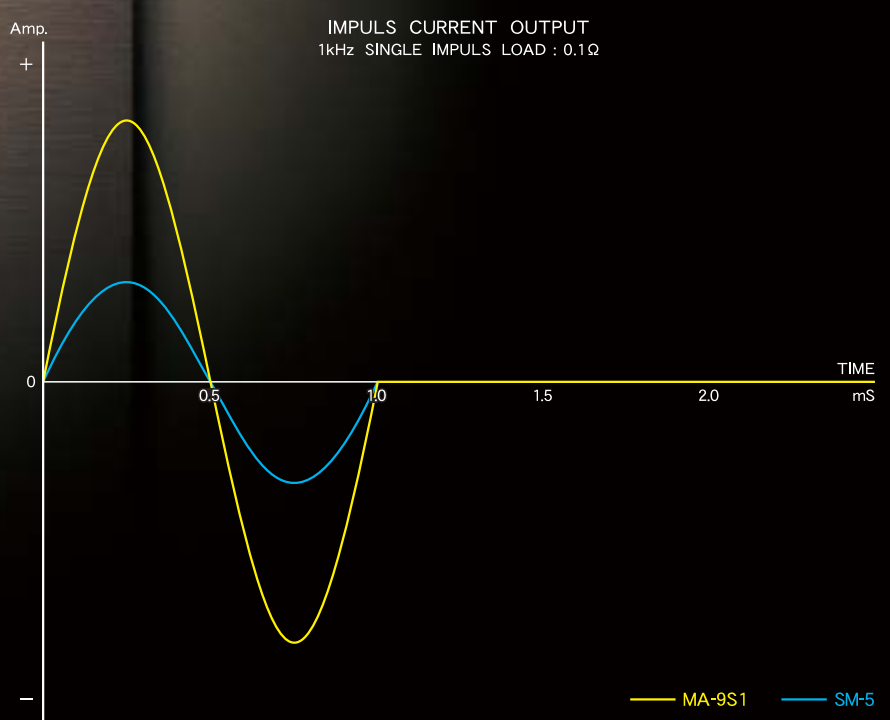
marantz  
monaural power amplifier MA-9S1



-7s1



ma-9s1



# SC-7S1

marantz *Stereo console*

Multi-channel audio has come of age and Super Audio sets the standard. So we have produced the SC7-S1, 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 sources of audio perfection.



## 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 equalisation for all analogue disc formats available at that time. The philosophy behind the circuitry design and the special attention to even the smallest (component) detail are still, even after more than 45 years, inspiring our engineers.

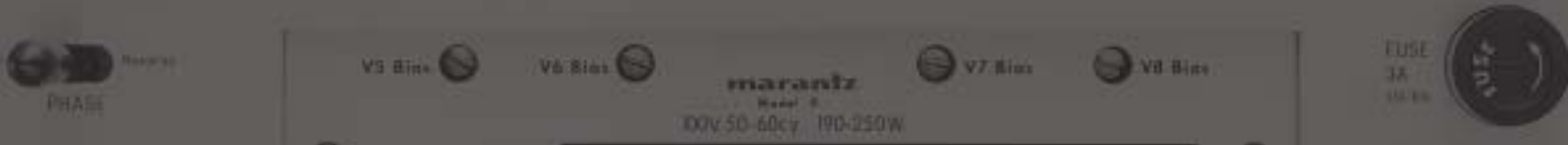
# MA-9S1

Its 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 modern 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. Utilising an EL34 tube in the ultra linear parallel push-pull circuitry. It delivered an incredibly high output power, which was reference setting in those days. It is the first model carrying on its front panel, what has become, the traditional Marantz meter.



# Stereo Control Amplifier

## SC-7S1

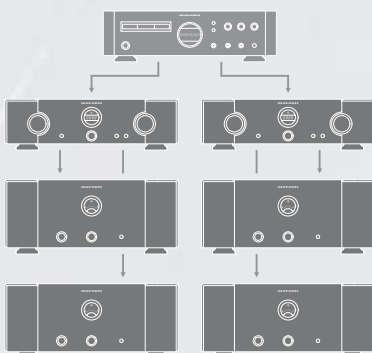


**The concept: channel separation for super wide range & dynamic audio**

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 circuitries, 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 with a system configuration of two sets of SC-7S1, and four sets of MA-9S1 connected in a bi-amping mode. You will experience superb sound with unbelievable channel separation.



### Full balanced control amp with an 8-gang linear volume control

The SC7-S1 is a full balance, 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,  $\pm 0.5$ dB. By adding an additional HDAM SA\*(Hyper Dynamic 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 Hyper Dynamic 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**



### Full 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 change. This can prevent noise from the amplifier as well as reduce noise from the primary winding resulting in a clean power supply.



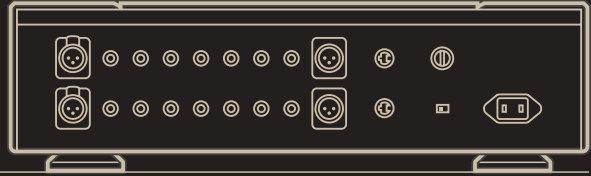
### Ultra low impedance amplifier

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



Even if amplifiers have the same power specifications, their performance may differ completely 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.

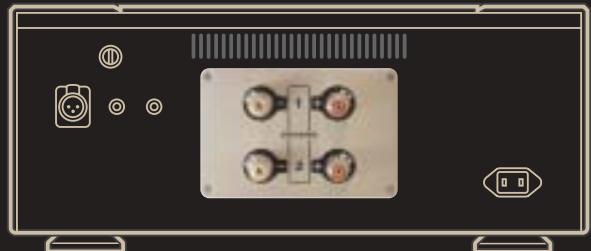
## SC-7S1 Stereo Control Amplifier



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	230V 50/60Hz	
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	(230V 50Hz)	
Power consumption	1200W	4Ω rated output
Maximum dimensions	Width	459mm / 18"
	Height	198mm / 7 5/16"
	Depth	451mm / 17 5/16"
Weight	35.8 Kg / 78.9 lbs.	
Accessories	AC mains lead	

All specifications, dimensions and weights are subject to change without notice. ©2003 Marantz Europe B.V. 07/03