

marantz[®] Super Audio CD Player

SA7001

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Also black available

SA7001 SA-CD Player

The stereo Super Audio CD and CD player SA7001 underlines the heritage of Marantz for high quality two channel audio reproduction. For playback that captures musical nuance and reproduces wide sound stage with no extra or missing information, we applied experience-extensive expertise in making faster, low-noise and lower impedance symmetric circuits with high quality parts. The SA7001 expresses the Marantz dedication to the purest reproduction of musical emotion!

NEW



R A N G E S E R I E S

because music matters

Features

- SA-CD playback
- The CS4397 'Super DAC' from Cirrus Logic
- Current Feedback HDAMs
- Customized components
- Dedicated power supply
- Dedicated top quality headphone circuitry with a fast current-buffer amp
- Display off possibility
- Quick Replay
- Marantz D-Bus

Benefits

- For an incredible 'live' experiences
- Top-end multi system D/A converter incorporates DSD conversion as well as PCM conversion
- Achieving a more dynamic, accurate and detailed sound reproduction
- For superb sound quality
- To eliminate interference
- For top quality personalized music enjoyment
- Improves the sound quality by eliminating high frequency noise from the FL display
- Move back to the desired passage with a one-touch operation
- Full system control

Technological glossary:

Purity for the purists

Marantz follows up on the tradition of high quality stereo SA-CD players. Based on the well received SA8400 Super Audio CD Player the SA7001 brings superb audio quality to all music lovers. This is the answers to concerns of audiophiles regarding functional integration of CD playback at the costs of audio quality. This player utilized all the benefits of the SA-CD format in stereo, of course allowing also standard CDs to be played back at high level quality. The SA7001 brings you all the depth, dynamics, and sonic excellence you've come to expect from Marantz' finest components. And at a cost that puts the best within the reach of almost everyone.

Super Audio playback

Enjoy the fabulous world of high resolution audio! Finally you can have an incredible live-experience in your home as it was in reality. Not only is the total ambiance reproduced, but also the natural 'sound' of the instruments is being preserved. SA-CD is based upon the DSD conversion principle that links excellent specifications like a frequency range of 100 kHz and a dynamic range of 120 dB, to superb sound quality.

The 'Super DAC'

The outstanding D/A converter, boasting a successful heritage in high-end machines including the SA-15S1 and SA8400, produces clear sound for Super Audio CDs and regular CDs alike. The CS4397, 'Super DAC', from Cirrus Logic is developed to provide high quality audio output for new standards such as SA-CD. It incorporates Cirrus Logic's mixed-signal technologies, including Switched Capacitor techniques, Multi-bit Delta Sigma Modulator architecture, and Dynamic Element Matching. All this results in an unsurpassed dynamic range and detailed resolution, which are key to a striking SA-CD performance.

Current Feedback HDAMs

Audio devices are usually equipped with Op-Amps (operational amplifiers) for which Integrated Circuit (IC) are commonly used. Unfortunately these IC's do not match the very high requirements of Marantz. Marantz developed it's own discrete circuit boards to replace the IC's. These HDAM's consists of discrete surface mount components with short mirror image L/R signal paths. Those devices are doing exactly the same thing as the Op-Amps, but outperform the regular IC Op-amps dramatically in terms of the Slew Rate, resulting in a much more dynamic, accurate and detailed sound, as well as on the signal to noise ratio. The Marantz HDAMs offering very low noise operation. There are no IC OP-amps used at all in the SA7001's analogue signal path.

The SA7001's analogue audio circuitry is a full discrete design including newly developed Current Feedback HDAM modules that operates as a buffer amplifier and as a Low Pass Filter. Both channels are completely identical in terms of components and circuit layout. This is extremely important to be able to enjoy a breathtaking sound stage of stereo SA-CD material.

Customized Components

Every Marantz product is designed with a fine ear and eye for details. The designers have to know the characteristics of every component. On paper the component might look excellent but the result may fall short of the combined design expectations. Therefore Marantz collects vast amounts of information upon specifics component performance capabilities. Marantz selects the appropriate components for the specific design application. The sonic result is then critically acclaimed by international reviewers. In other cases it's simply not possible to use standard components that meet the high Marantz standards. These components will then be specially made for Marantz only in cooperation with the Marantz engineers.

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 SA7001 is a clear example of benchmark engineering and craftsmanship and features a number of Marantz sound enhancements. The SA7001 SA-CD player is built on a solid metal chassis. Extensive bracing and shock-absorbing feet result in minimized internal vibration and mechanically induced jitter. All of the digital, analogue and control circuits are separated and shielded in their own enclosures to prevent cross-talk and other unwanted interference. Independent power supplies for each dedicated system block secure maximum separation, clarity and dynamics. Symmetrical lay out hand-selected Customized Components, gold-plated terminals and the renown Marantz Current Feedback HDAMs all work in harmony. This design configuration is capable of a 'live experience' reproduction of the most complex music pieces composed.

Personal enjoyment

For the headphone listeners we have paid extra attention to the headphone circuitry to ensure that the pure emotion of SA-CD is passed on. A dedicated amplifier is developed with a fast current-buffer amp, constructed of discrete components only, including a high grade potentiometer for the volume control.

Pure audio modules

We've taken advantage of insight from all past Super Audio CD player development to create new mechanism modules specifically for audio applications. The servo and decoder are mounted on a four-layer glass epoxy board. Noise radiation is extremely faint, and shielding is provided by box construction incorporating the chassis, preventing any noise from penetrating inside. The tray is finished with an elegant coating that also dampens vibration, and we've chosen black as an ideal tray and mechanism color or minimal effect on laser diffusion.

Marantz D-Bus

To optimize equipment in terms of ease of use, Marantz has designed the D-Bus system. Individual devices inform each other, in order to automatically tune to the customers demands. At the same time received remote control commands are communicated via this bus. This enables equipment without IR-receiver, like a cassette deck or tuner, to be controlled via a Marantz Remote control.

Environmental friendly

Every electronic equipment product is built of single electrical components that are made of different material and substances. Marantz assure that the components used in our products are free of any dangerous material or substance to keep our environment clean. We have for example removed hazardous substances like lead in the solder.

Bypacked accessories

- User manual
- Power cable
- Remote control
- D-Bus cable
- 1 pair Audio cinch cable
- Batteries

RC7001SA



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FEATURES		INPUTS/OUTPUTS	
Disc Capacity	1	Analogue Out (Cinch)	2ch
CD Compatibility: CD / CD-R/RW	•/•/•/-	Balanced Out	-
/ SA-CD / WMA / MP3	/-	Digital Optical Out	1
SA-CD compatibility: Multi channel / stereo /	-/•	Digital Coaxial Out	1
CD-Text / SA-CD Text	-/•	Gold plated Cinch	•
High Grade Audio Components	•	D-Bus In/Out	•
Customised Components	•	• RS232C	-
Symmetric circuit layout	•	Headphone Out	•
System block shielding: Copper / metal / none	-/•/-	• Headphone Volume Control	•
Power Transformer: Super-ring / Toroidal / EI	-/•/•	SPECIFICATIONS	
Copper grounding	-	Mechanism	FG-SA7001
HDAM: Standard / SA / Current Feedback	•/•/•	Decoder	CXD1885Q
HDAM cover: Gold plated / Copper plated / Metal / no shield	-/•/•/•	D/A Conversion	DSD
CCNE	-	DAC IC	CS4397
Shottky diodes	•	Digital Filter	CS4397
Relay muting	-	Noise Shaper	CS4397
Selectable filter: CD / SA-CD	-/•	Low Pass Filter stage	HDAM
Noise shaper (on/off)	-	Output Buffer	HDAM
DC filter (on/off)	-	• <u>SA-CD AUDIO</u>	
Zero Impedance Matching joint (copper)	•	Frequency Response	2Hz-50kHz (+0, - (Cust.) 3dB)
Separated rectifier circuit for analogue and digital Circuitry	-	Dynamic Range	114dB
Digital out circuit off	-	Signal to Noise Ratio	109dB
Phantom center mode	-	Total Harmonic Distortion	0.0009
Display: Dimmer / Off	-/•	Channel Separation	100dB
Output filter switch	-	• <u>CDDA AUDIO</u>	
Variable Analogue Output	-	Frequency Response	2Hz-20kHz
Discrete Coding	•	Dynamic Range	< 100dB
Current Feedback headphone circuitry	-	Signal to Noise Ratio	103dB
Low Noise LCD display	-	Total Harmonic Distortion	0.002
Chassis : Die-cast / Copper plated / Metal	-/•/•	Channel Separation	100dB
Double layer bottom plate	-	• <u>GENERAL</u>	
Bi-directional control via RS232C	-	Available colors: Platinum/Gold/Silver/Black	-/•/•/•
		Metal Front Panel	•
		Remote Control	RC7001SA
		Power Consumption	20 Watts
		Detachable Power Cable	•
		Maximum Dimensions (W x D x H)	440 x 140 x 110 mm
		Weight	4.5 kg
PLAYBACK			
Program Play	30		
Auto Music Scan (AMS)	•		
Repeat: track/program/A-B	•/•/•		
Random Play	•		
Index Search	-		
Peak Search	-		
Edit Recording	-		
Sync Recording	-		
Pitch Control	-		
Start Sound Mode for SA-CD	•		
Quick Replay	•		

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

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