

marantz®

12 SERIES SPECIAL EDITION



The Pursuit of Perfection

Special Edition

because music matters

Because Music Matters

Refined musical reproduction, driven by a heritage of audio mastery.

At Marantz we believe that true hi-fi is about being able to reproduce the magic of a performance. It's about experiencing music just as the artist intended. That's why Marantz products are "invisible" – they don't add anything to the music signal that wasn't intended by the musician. They re-built the wide and deep soundstage of the original recording, to deliver the most natural and musical sound for you to enjoy.

Since 1953, Marantz remains true to the pursuit of pure musical reproduction. It's what drove founder Saul B. Marantz when he tinkered in his Kew Gardens, NY basement to reproduce music as it was meant to be heard. It's what drives us today. A classical guitarist with an innate ear for pure sound, Saul B. Marantz was dissatisfied with the amplifiers of his time — so he built the amplifier that could reproduce what he yearned to hear. He didn't know it then, but Saul B. Marantz himself was the first customer.

His pursuit of sonic fidelity and unrelenting curiosity is alive today. It's the passion that courses through everything we do. With unwavering attention to detail, Marantz produces unequalled HiFi sound that exalts the mastery and emotion of music. What moves us when we listen — those refined elements of quality sound — is central in each Marantz component.

SA-12 SPECIAL EDITION SUPER AUDIO CD-PLAYER WITH DAC
PM-12 SPECIAL EDITION INTEGRATED AMPLIFIER

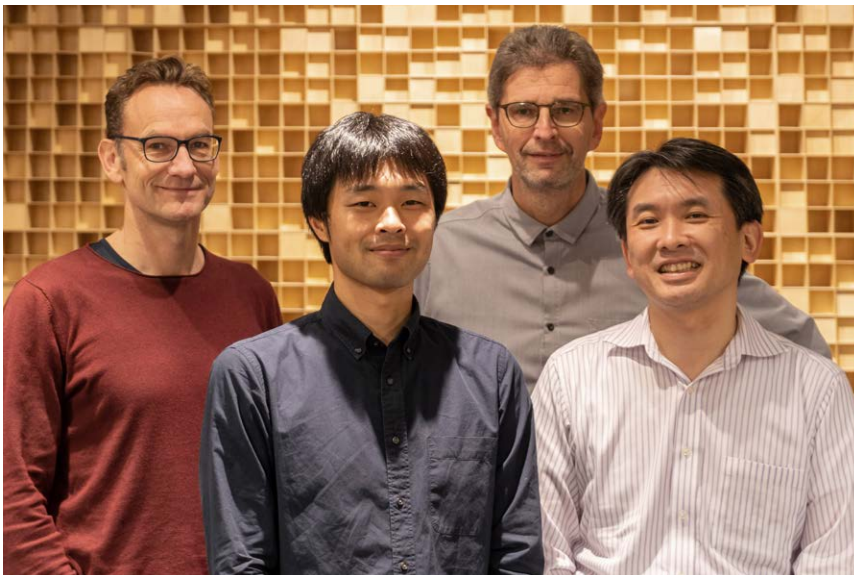


The Pursuit of Perfection

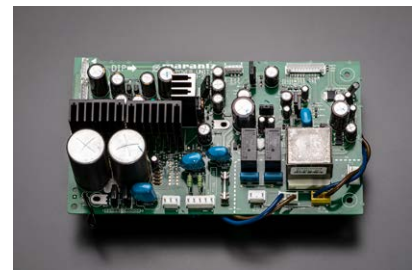
Extensive and painstaking tuning by sound masters is what powers the exquisite sonic signature of any Marantz product. No component leaves the hands of Marantz Sound Masters until it passes rigorous testing. Only the finest products, thoroughly tested and tenderly handled, make it to your home.

Marantz Special Editions are the Marantz way to celebrate the love of music that runs deep in the veins of Marantz sound masters and engineers, exhibited in the artistry and craftsmanship of those special components.

Sound Masters will occasionally identify a product with a higher potential than expected and master it with extra unwavering attention to detail, component selection and listening sessions. The original SA-12 and PM-12 were solely created for the Japanese market, and quickly proved to be the next chosen one. European sound engineers combined it with achievements made developing the famous KI Ruby, and thus the 12 Series Special Edition was born.



European and Japanese Sound Engineers:
Oliver Kriete, Takumi Murayama, Rainer Finck, Yoshinori Ogata





PM-12 SPECIAL EDITION

INTEGRATED AMPLIFIER



Extensive and painstaking tuning has long been the secret of fine sounding Marantz amplifiers. For the PM-12SE, the Marantz engineering team used all their experience and expertise, both in the design of the amplifier and in the long listening sessions involved in finalizing the sound. The team of Sound Masters located in Japan and Europe didn't stop their intensive work until they were absolutely certain they reached the height of quality worthy of the Marantz name.

The PM-12SE circuitry offers the cleanest signal path through amplifier, which delivers 100W per channel into 8ohm speakers, or 200Wpc into 4ohm. It is equipped with high-quality nickel-plated copper input terminals, and high-purity copper speaker connections.

The PM-12SE is built with just one aim – audio performance – which is why it uses a fully discrete two-stage design with separate power supplies for the preamplifier and power amp section, and draws on the design of the PM-10 and PM-KI Ruby amplifier with its moving coil/moving magnet phono stage complete with Marantz Musical Premium Phono EQ circuit, and Marantz HDAM technology throughout for signal purity.

The purely analogue design of the PM-12SE contributes to its noise-reduction structure and clean build: many rival designs are today including digital-to-analogue conversion, or adopting digital amplification and volume control, but Marantz keeps things as clean and simple as possible with its acclaimed all-analogue design. It may seem convenient to have a DAC in the amplifier, but digital circuitry is by its very nature, noisy (in the electrical sense) and can interfere with the delicate analogue signals passing through the amp. That's why Marantz chose to design its Premium Series range without any digital-to-analogue conversion, keeping its amplifiers as pure and clean as possible. Because Music Matters.

At a glance

- Engineered and extensively tuned by European and Japanese sound engineers drawing on more than 65 years of Marantz amplifier design knowledge
- Marantz high-resolution preamplifier stage using proprietary HDAM technology
- Switching power amplifier design derived from flagship PM-10 and PM-KI Ruby
- Generous output: 100W + 100W (8 ohm), 200W + 200W (4 ohm)
- Fully-discrete two-stage design for signal purity, with separate power supplies for preamp and power amplifier sections to reduce interference
- Toroidal transformer dedicated to preamp for clarity and precision sound
- Current feedback design with newly-developed wide-range circuitry
- HDAM® SA3 circuitry for clean signal and optimal dynamics
- MM/MC Phono input with new discrete Marantz Musical Premium Phono EQ circuit
- Thick nickel plated independent input terminals for CD and Phono, plus Marantz original high-quality/high-purity copper speaker terminals
- Linear volume control with new electric volume system



FEATURES	
Channels	2
Current Feedback Topology	•
Phono EQ	Marantz Musical Premium Phono EQ
HDAM version	SA3, SA2
Power Transformer	Toroidal and SMPS
High Grade Audio Components	•
Customised Components	•
Symmetric PCB Layout	•
Aluminium extrusion heat sink	• (Separate)
INPUTS/OUTPUTS	
Audio Inputs/Outputs	6 / 2
Phono Input: MM / MC	• / •
Power Amp IN	•
Gold Plated Cinch	• / CD and Phono nickle-plated
Speaker Terminals:	Marantz SPKT-100+
Number of terminals	2
D-Bus	•
Floating Control Bus (3.5 mm mono jack x 2)	•
Headphone Out	•
SPECIFICATIONS	
Power Output (8 / 4 Ohm RMS)	100W / 200W
Frequency Response	5 Hz - 50 kHz
Total Harmonic Distortion	0.005 %
Damping Factor	500
Input Sensitivity: MM	2.3 mV / 39 kohm
Input Sensitivity: MC	250 µV / 100 ohm
Signal to Noise Ratio: MM/MC	88 / 75 dB
Input Sensitivity: High level	220 mV / 13 kohm
Signal to Noise Ratio: High level	107 dB (2V input/rated output)
Input Sensitivity: Power Amp Direct IN	1.1 V / 13 kohm

OTHERS	
Linear Drive Power Supply	• (pre-amplifier stage)
Linear volume control	•
Bi-AMP and Multichannel option	•
Schottky diodes	•
Double Layer Bottom Plate	•
OLED LCD display	•
GENERAL	
Available colours:	Gold / Black
Metal Front Panel	•
Power Consumption in W	130
Standby Consumption in W	0.2
Auto Power off	•
Detachable Power Cable	•
Remote Control	RC005PMSA
System Remote Function	•
Maximum Dimensions (W x D x H) in mm	440 x 453 x 123
Weight	15.3 kg

* All specs can be subject to change.





SA-12 SPECIAL EDITION

SUPER AUDIO CD PLAYER WITH DAC



Marantz was in at the start of CD, launching its first player — the original CD-63 — in 1982. In the following years, Marantz became well known as the CD-Player specialist. Drawing on the development process for the flagship SA-10 and SA-K1 Ruby, the SA-12 Special Edition was created to celebrate the love of music and exalt the mastery and emotion of music.

Marantz Musical Mastering technology defines new standards in the digital and analogue audio processing. A disc mechanism built purely for audio, the “SACDM-3” is able to play SACDs, CDs, and compilations on CD-ROM or DVD-ROM. It also has an asynchronous USB input, able to handle formats all the way up to PCM/DXD 384kHz/32bit and DSD11.2MHz.

The Marantz Musical Mastering Stream transforms all PCM file formats to DSD format, using advanced filtering and proprietary processing before the Marantz Musical Mastering Conversion converts the 1-bit data stream directly into an analogue signal without the use of a conventional D/A converter.

The Marantz engineering team created this player to deliver the kind of sound able to bring you closer than ever to your favourite music. The reason is simple, and central to everything Marantz does. Because Music Matters.

At a glance

- Engineered and extensively tuned by European and Japanese sound engineers drawing on more than 35 years of Marantz expertise in CD players
- In-house-developed SACD/CD mechanism “SACDM-3”, designed purely for audio
- SACD/CD playback, and playback of compilations on CD-ROM and DVD-ROM
- Asynchronous USB input for hi-res audio up to PCM / DXD 384kHz/32bit and DSD11.2MHz
- Isolation of USB and digital inputs to block noise from internal and external sources
- Innovative Marantz Musical Mastering ‘MMM-Stream’ upsampling to DSD and filtering
- Custom-designed 1-bit direct ‘MMM – Conversion’ from DSD to analogue
- New analogue output stage with Marantz HDAM-SA3 and HDAM-SA2 technology and low impedance output
- Power supply using toroidal transformer
- Dedicated headphone amplifier with all-discrete construction featuring HDAM-SA2



FEATURES	
CD Compatibility: CD / CD-R/RW / SA-CD / WMA / MP3 / AAC	• / • / • / • / • / •
SA-CD Text / ID3 Tag / WMA TAG	• / • / •
USB input	•
DAC operation mode: USB / Coax / Optical	• / • / •
Asynchronous mode rear USB	•
Bit-perfect transmission	•
USB-B DSD Audio Streaming: DSD2.8 / 5.6 / 11.2MHz	• / •
Isolator works not only for DAC mode but also for SACD/CD mode	•
HDAM version	SA3, SA2
Power Transformer	Toroidal
High Grade Audio Components	•
Customised Components	•
Symmetric circuit layout	•
Digital out off	•
INPUTS/OUTPUTS	
Analogue Out (Cinch)	2ch
Digital Optical In / Out	• / •
Digital Coaxial In / Out	• / •
Gold plated Cinch	• / Analog out Nickel plated
USB type A input, USB memory devices (back)	•
USB type B input for PC (back)	•
D-Bus	•
Headphone Out	•
Headphone Gain Control	•
SPECIFICATIONS	
Mechanism	SACDM-3

Low Pass Filter stage	HDAM-SA3/SA2 (current feedback)
Output Buffer	HDAM SA3
Headphone amp	HDAM-SA2 (current feedback)
SA-CD AUDIO	
Frequency Response	2 Hz - 50 kHz
Dynamic Range	109 dB
Signal to Noise Ratio	112 dB
Total Harmonic Distortion	0.0008% (1kHz)
CDDA AUDIO	
Frequency Response	2 Hz - 20 kHz
Dynamic Range	98 dB
Signal to Noise Ratio	104 dB
Total Harmonic Distortion	0.0015% (1kHz)
GENERAL	
Available colors: Gold / Black	• / •
Metal Front Panel	•
Remote Control	RC005PM5A
Power Consumption	47 W
Standby Consumption	0.3 W
Auto power off	•
Detachable Power Cable	•
Maximum Dimensions (W x D x H)	440 x 419 x 123 mm
Weight	16.4 kg

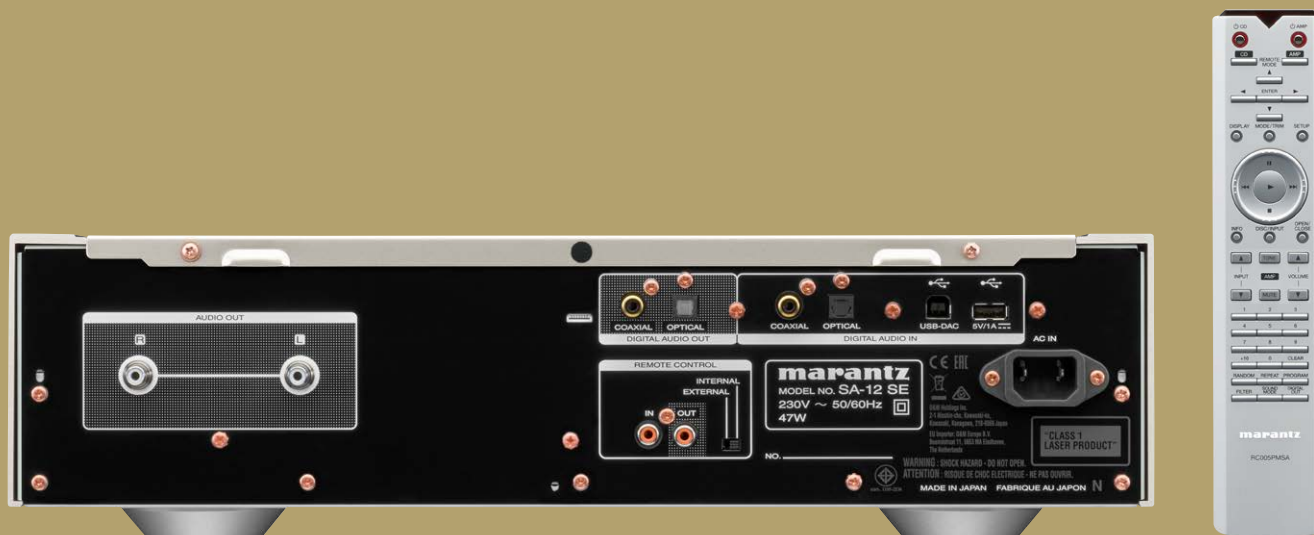
USB-B / DIGITAL COAXIAL / DIGITAL OPTICAL

INPUT	FORMAT	SAMPLING RATE	BIT LENGTH
USB-B	DSD	2.8 / 5.6 / 11.2 MHz	1 bit
	PCM	44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz	16 / 24 / 32 bit
Digital Coaxial	PCM	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	16 / 24 bit
Digital Optical	PCM	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	16 / 24 bit

USB-A IN

FORMAT	SAMPLING RATE	BIT RATE	BIT LENGTH	FILE EXTENSION
DSD	2.8 / 5.6 MHz	—	1 bit	.dsf / dff
WAV	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	—	16 / 24 bit	.wav
FLAC	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	—	16 / 24 bit	.flac
ALAC	44.1 / 48 / 88.2 / 96 kHz	—	16 / 24 bit	.m4a
AIFF	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	—	16 / 24 bit	.aif/.aiff
MP3	44.1 / 48 kHz	32 – 320 kbps	—	.mp3
WMA	44.1 / 48 kHz	48 – 320 kbps	—	.wma
AAC	44.1 / 48 kHz	16 – 320 kbps	—	.aac/.m4a

* All specs can be subject to change.





Availability of models may vary from country to country. Marantz reserves the right to change the design and specification due to a policy of continuous product improvements without notice.

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marantz®

Sound United
A Division D&M Europe B.V.
P.O. Box 8744
5605 LS Eindhoven
The Netherlands

www.marantz.com