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MARANTZ PM-10 Reference Series SG Integrisano Pojačalo

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Proizvođač: Marantz

Cena: 839.880,00 rsd

MARANTIZuPM-110 Reference Series SG Integrisano Poja

Making an integrated amplifier with dual monobloc design fitting in a normal size cabinet is made possible by the use of a stereo switching amplifier. Its aim? To reveal the maximum musical involvement from everything from LPs to the latest high-resolution audio files and beyond, and with all the power and control required to drive the most demanding loudspeakers, allowing them to perform at their best.

Features

The new reference class Integrated amplifier

Four switching power amplifier channels in bridged mode (two per channel) for maximum grip and drive

True Balanced Concept from input to speaker to realise ground-free signal management

Massive power: 200Wpc per channel into 8ohms, and 400Wpc into 4ohms

Easy driving of a wide range of speakers

Wide-ranging dynamic ability thanks to instant high-current power supply

Fully balanced throughout: both preamplifier and power amplifiers
Marantz Hyper Dynamic Amplifier Modules (HDAM) in preamp stage

Dual mono power amplifier configuration

Separate power supplies for preamplifier and control processor, and for each power amp channel Discrete phono stage for moving coil and moving magnet cartridges in its own shielded case.

High-quality construction with double-layer chassis, 5mm thick aluminium top lid, solid aluminium front, copper plated chassis and high-purity copper speakers terminals

Double thickness copper PCB for the output section and main power supplies.

Optimised Design

To achieve such quality, while still delivering class-leading power, means optimising each section of the amplifier for its task, just as would be done in a design using a separate preamplifier and monobloc power amps.

Commonly, amplifiers use a single transformer, with separate power supply regulation for the preamplifier and power amplifier sections; the PM-10 takes things much further.

A dual-mono design, it has separate power supplies for the preamplifier and each of the power amplifier channels, with one transformer dedicated to the preamp to ensure the delicate signals passing through that section of the amplifier aren't affected by the demands of the high power output stages. There's also a dedicated supply for the microprocessor controlling volume adjustment, input selection and so on, ensuring no noise from the control section finds its way in to the audio path.

Pure Analogue

Another important part of the noise-reduction here is the fact that the PM-10 is a purely analogue amplifier: many rival designs are today including digital-to-analogue conversion, or adopting digital amplification and volume control, but the Marantz keeps things as clean and simple as possible with its highly-developed all-analogue design.

Why? Well, though it may seem convenient to have a DAC in the amplifier, 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 chooses to design its Premium Series range with any digital-to-analogue conversion in its Super Audio CD or network music players, keeping its amplifiers as pure and clean as possible.

What's more, to make the most of that purity of design, the PM-10 has also been designed with the option of working in 'Purest Mode': when engaged, this deactivates any superfluous circuits, giving the signal the cleanest possible path through the amplifier. There's also a Power Amp Direct input, taking the signal straight from the input section to the power stage to let the unit work as a pure power amplifier.

Fully Balanced, From Input to Final Power Section

The benefits of balanced audio layout have long been understood: unlike a conventional layout, one half of the signal path is in the ground plane of either an amplifier or a cable, balanced working uses two conductors or paths – one for positive, the other for negative – and an entirely separate ground to protect them.

The benefit in cables is that any external interference will affect both positive and negative conductors, but since the signals they are carrying are the mirror image of each other, they will mutually cancel out any effect – which is why such cables are widely used in pro audio and studio applications, where sources of hum are common, and the longer cable runs involved makes them particularly prone to picking up interference.

The same is true when balanced working is applied to audio circuitry: not only does this mirror-imaging of the layout, in which identical components are handling the positive and negative 'legs' of the signal, cancel out any potential interference, it also means any noise or errors introduced in the circuitry will also be cancelled out.

An additional benefit is that balanced working also uses stronger signals than unbalanced designs, simple because both halves of the circuit are active – rather than just having one half pushing and the other just providing the ground, here we have a 'push pull' operation. And a stronger signal means one less susceptible to any outside interference: the more signal there is, the less obvious any noise will be. PM-10 input

By keeping the signal balanced all the way through the amplifier, and combining that with optimised power supply design, the Marantz engineers are able to achieve maximum noise rejection throughout the audio path, and the highest possible signal purity.

Balanced, Bridged Power Amplification

For the PM-10, Marantz wanted the purest possible sound, plus the power and dynamics to drive and control some of the world's most demanding speakers. To achieve this, they continued the balanced working found in the preamp stage right the way through to the power amplifier stage to its speaker outputs, and also adopted bridged working to develop the power required while maintaining that balanced design. This True Balanced Concept realizes a ground-free signal management from the input to the output.

What is the bridged amplifier about? In a conventional amplifier, one speaker is driven by the positive and negative part of one single output stage per channel, but a bridged amplifier does things differently, using two separate amplifier stages per channel to drive one speaker. To greatly simplify things: one amp pushes the speaker cones and domes, while the other pulls them back.

That much greater control over the way the speaker drive units behave, in that the amplifier can make them start moving, and stop, much more precisely is very important for definition and the 'speed' of the system, meaning it can play music with much better rhythmic and spatial controls, not to mention making voices and instruments sound more realistic.

That ensures not just the power to drive even big, power-hungry speakers to high levels while keeping the sound clean and distortion-free, but also the 'grip' to make sure those speakers are doing just what the music demands. It's all made possible by the use of the latest switching amplifier technology, allowing a compact integrated amplifier design while still fulfilling Marantz performance requirements.

Carefully Selected Components

Marantz has long built a reputation for choosing the best-possible components for its Premium Series products – and if it can't find what it wants, it designs and builds the required part.

That thinking informed the design of the Hyper Dynamic Amplifier Module (or HDAM): unhappy with the audio quality available from 'amplifier on a chip' IC components, the company designed its own alternative,

in the form of a miniature amplifier module built entirely of discrete components. As with all such design decisions, the engineers selected and optimised the HDAM through extensive listening in dedicated Marantz facilities in Europe and Japan, and since it was introduced this component has both been developed and also found its way into an ever-wider range of products.

In the PM-10, the latest-generation HDAM SA3 is used, as part of a current feedback topology designed for the widest possible frequency and dynamic ranges – just the thing for today's ultra-high-resolution audio formats – and aided by ultra-fast custom made block capacitors for the fastest possible response to demands for high current.

The same current feedback design is applied to the phono stage in the PM-10, which is configurable for use with either moving coil or moving magnet cartridges for the best possible playback of those favourite LPs. This isn't a case of Marantz responding to the current 'vinyl revival': over the years, while developing and refining its digital competences, the company has remained totally committed to the excellent sound possible from LPs and singles. It has long been fitting its products with high-quality phono stages – even before vinyl came back into fashion!

Built To Perform

Like the partnering SA-10 Super Audio CD/CD player/DAC, the PM-10 is constructed to the highest possible standards, with a double-layered copper-plated chassis for excellent rejection of mechanical and electrical interference, and casework constructed from thick, heavy, non-magnetic aluminium panels. Both products also sit on aluminium die-cast feet.

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Marantz PM-10 Specifications	
FEATURES	
NUMBER OF CHANNELS - 2	CURRENT FEEDBACK TOPOLOGY
FULL BALANCED CIRCUITRY ARCHITECHTURE	DOUBLE MONO POWER AMP CONSTRUCTION
PHONO EQ: CONSTANT CURRENT FEEDBACK	HDAM VERSION: SA3
POWER TRANSFORMER: TOROIDAL / EI - SMPS	HIGH GRADE AUDIO COMPONENTS
CUSTOMISED COMPONENTS	SYMMETRIC PCB LAYOUT
ALUMINIUM EXTRUSION HEAT SINK (SEPERATE)	COPPER PLATED CHASSIS
INPUTS / OUTPUTS	
AUDIO INPUTS - 7	PHONO INPUT: MM /MC
AUDIO OUTPUTS - 1	BALANCED IN - 2
POWER AMP DIRECT N	GOLD PLAYED CINCH: CD & PHONO NICKEL- PLATED
SPEAKER TERMINALS: MARANTZ SPKT-100+	NUMBER OF TERMINALS - 4
D-BUS	FLOATING CONTROL BUS (3.5 MM MONO JACK X 2)
HEADPHONE OUT	
SPECIFICATIONS	
POWER OUTPUT (8/4 OHM RMS) - 200 W / 400 W	FREQUENCY RESPONSE: 5 HZ - 50 KHZ
TOTAL HARMONIC DISTORTION: 0.005%	DAMPING FACTOR: 500
INPUT SENSITIVITY: MC - 280 MV / 33 OHM (MC-LOW) 280 MV / 133 OHM (MC-HIGH)	INPUT SENSITIVITY: HIGH LEVEL 400 MV / 20 KOHM
INPUT SENSITIVITY: HIGH LEVEL : 400 MV / 20 KOHM	INPUT SENSITIVITY: BALANCED HIGH LEVEL: 800 MV / 40 KOHM
SIGNAL TO NOISE RATIO: HIGH LEVEL - 111 DB (2V INPUT / RATED OUTPUT)	INPUT SENSITIVITY: POWER AMP DIRECT IN: 1, 5 V / 20 KOHM
SIGNAL TO NOISE RATIO: POWER AMP DIRECT IN: 113 DB	
GENERAL	

Marantz PM-10 Specifications	
METAL FRONT PANEL	POWER CONSUMPTION: 270 W
STANDBY CONSUMPTION: 0.3 W	AUTO POWER OFF
DETACHABLE POWER CABLE	REMOTE CONTROL : RC004PMSA
MAXIMUM DIMENSIONS (W X H X D) - 440 MM X 453 MM X 168 MM	WEIGHT: 21.5 KG