

marantz® Integrated Amplifier

PM7001 KI



Also black available

PM7001 KI - Signature Integrated Amplifier

The KI Signature series is for years a pseudonym for finest electronics with best sound quality. Every aspect of the design and construction of the PM7001 Modified KI stereo amplifier has received Ken Ishiwata's personal attention to attain uncompromised quality. The copper-plated chassis and rear panel reduce signal-degrading electromagnetic interference, while its rigid dual layer chassis and solid aluminum front panel virtually eliminate mechanical vibration. Delivering 2 x 70 watts into 8 ohms (120 watts, 4 ohm), this 2-stage constructed Current Feedback amplifier features symmetrical circuits for perfect image balancing, and uses audiophile Customized Components and the new HDAMs to preserve the music's dynamic structure, tonal quality and stereo image. Power handling characteristics have been reshaped and the large toroidal transformer is designed for this renewed circuitry. Its low impedance, wide-bandwidth power supply ensures a massive reserve of energy, to drive even difficult speakers with ease. Enjoy the exclusivity of the Ken Ishiwata Signature integrated amplifier.

NEW



R A N G E S E R I E S

because music matters

Features

- Output power 2 x 70 Watts
- Toroidal Transformer
- Current feedback amplification
- New HDAM
- Customized Components
- Symmetric circuit architecture
- Source direct circuit
- Tone control & loudness function
- Two pairs of speaker outputs
- D-Bus & system remote control

Benefits

- Sufficient real power capability to fill the room with musical enjoyment
- Ultra low vibration and leakage flux keeps the signal sharp and minimizes internal electro magnetic distortion
- Excellent frequency response and superb sonic performance for the highest standard such as SACD
- Achieving a unprecedented dynamic, accurate and detailed sound reproduction
- Two times identically lay out symmetric audio circuit boards secure precise stereo imaging
- Bypasses the tone control circuitry to ensure the purest sound quality
- Allows tonal adjustment to personal taste
- For bi-wired connection of loudspeakers, or for multiroom applications
- Flexible system integration and total control via one system remote

Technological glossary:

Understand the vision

The KI-series of Marantz are the embodiment of the knowledge and inspired vision of Ken Ishiwata. To understand his vision best, just experience this exquisite piece of equipment.

Current Feedback amplification

Unlike conventional Voltage feed back amplification, the Current feedback amplification makes the power amplifier insensitive to difficult loudspeaker loads. In the PM7001 KI we reduced the feedback impedance of the Current Feedback circuit to its minimum to make it faster and extend the bandwidth. The result is a much more accurate and realistic sound.

Toroidal power transformer

The power supply of any amplifier is like the heart of the product. Therefore we utilize in the PM7001 KI signature a Toroidal Power Transformer. This special transformer has a much higher efficiency due to very low impedance of the windings. Fast high current deliver capability is very important to follow each detail in the music. In addition it has the advantage of extremely low electromagnetic radiation. Therefore any noise and hum into the surrounding circuitry is reduced to the absolute minimum. The sonic result speaks for itself.

Marantz' new HDAM

The Marantz HDAM is a low level signal amplifier. It is in use where the audio signal has a very low voltage level and has to be handled with a maximum of care. Most of the other audio brand companies are using for this integrated circuit (IC) operational amplifier (op-amps). These ICs of course are less expensive but unfortunately these ICs do not match the very high requirements of Marantz. Marantz developed its own discrete circuit boards. These HDAMs consists of discrete components with short mirror image L/R signal paths. These devices are doing the same thing as the Op-amps, but outperform the regular integrated circuit Op-amps dramatically in terms of the Slew Rate and noise level, resulting in a much more dynamic, accurate and detailed sound.

Symmetric circuit architecture

To achieve the best possible sonic performance, signal paths need to be short, direct and mirror imaged. The construction of our circuitry provides improved stereo image by ensuring symmetry between right and left channel layout. The tone defeat circuit will insure shortest signal paths by passing tone control board completely. The rigid chassis, solid metal construction and solid metal front create an anti-resonant environment.

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. The result guarantees Marantz selects the appropriate components for the specific design application. The sonic result is 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 co-operation with the Marantz engineers.

A touch of Ken Ishiwata

The PM7001 KI is a clear example of benchmark engineering and craftsmanship of Ken Ishiwata and features a number of Marantz sound enhancements. The PM7001 KI integrated amplifier is built on a rigid dual layer enforced chassis. All of the analogue signal and control circuits are separated and shielded to prevent cross-talk and other unwanted interference. A high grade power supply centered around a special selected toroidal transformer secures maximum separation, clarity and dynamics. This design configuration is capable of a clear and powerful reproduction of the most demanding musical performances. The strength of each KI Signature design can be found in the attention to detail and the synergy of the different elements.

Copper plated chassis

The PM7001 KI has a fully copper plated chassis for minimal disturbance from electro-magnetic radiation and perfect grounding to each point of the chassis. This will improve dramatically the signal to noise ratio and of course music image.

Two pair of speaker outputs

In not all domestic environments the availability of one speaker system is sufficient. The PM7001 KI is equipped with the possibility to connect 2 pairs of loudspeakers. The speaker systems can be switched on and off by simply selecting the speaker system on the front of the amplifier. Another option for the second speaker connection is to provide a bi-wired connection for your main loudspeakers. By doing so, this provides each loudspeaker drive unit (bass driver and tweeter unit) to have a separate and direct connection to the amplifier. This reduces any influence the internal cross-over may exert upon the music. In effect each drive unit has a separate and independent filter network eliminating all crossover distortion.

In control of the system

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 the bypacked Marantz System Remote Controller.

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
- Batteries

RC4001PM



marantz®



FEATURES

Channels	2
Current Feedback Topology	-
Class A Amplification	-
Linear Drive Power Supply	-
CCNE	-
Linear volume control	-
Floating control bus system	-
Power Transformer: Super-ring / Toroidal / El	-/•/-
Choke input	-
Shotky diodes	•
HDAM: Standard / SA / SA2 / Current Feedback	-/•/-/•
HDAM cover: Gold plated / Copper plated / Metal /plastic / no shield	-/•/-/•
Input buffer amp (all inputs)	CD
Construction: Twin mono / 3-Stage circuit	-/•
Symmetric PCB Layout	•
System block shielding: Copper / metal / none	-/•/•
Chassis : Die-cast / Copper plated / Metal	-/•/•
Double Layer Bottom Plate	tbtf
High Grade Audio Components	•
Customised Components	•
BTL Possibility	-
Current Feedback phono equalizer	-
Balance / Bass / Treble / Loudness	•/•/•/-
Source Direct	•
Separate Solid Heat Sinks	-
Speaker A/B	•
Record Selector: full / copy-source	•/-
Auto Power On/Off	-
Low noise LCD display	-
Temperature Gauge	-
Standby Mode	•

INPUTS/OUTPUTS

Audio Inputs	6
• Phono Input: MM/MC	•/-
Audio Outputs	2
• Balanced In/Out	-/•
External Control In (Composite)	-
Processor In/Out	-
Pre-out / Main-in	•/•
D-Bus In/Out	•
Gold Plated Cinch	CD
Speaker Terminal: Click-fit / Screw / WBT	tbtf
Floating control bus (3.5mm mono jack x 2)	-
AC Outlets (Not for UK Model)	-
Headphone Out	•

SPECIFICATIONS

Power Output (8/4 Ohm)	80/120
RMS)	Watts
Frequency Range	
Frequency	10Hz-60kHz (+0,-
Response	1dB)
Total Harmonic Distortion	0.01%
Bridged Power Output (8 Ohm RMS)	-
Damping Factor	tbtf
Input Sensitivity: MM	3mV / 47 kOhm
Input Sensitivity: MC	-
Input Sensitivity: High level	200mV / 20kOhm
Signal to Noise Ratio: High level	88 dB
Signal to Noise Ratio: MM/MC	85/- dB

GENERAL

Available colors: Platinum/Gold/ Silver/Black	-/•/•/•
Metal Front Panel	•
Remote Control	RC4001PM
System Remote Function	System
Power Consumption	tbtfWatts
Detachable Power Cable	•
Maximum Dimensions (W x D x H)	440 x364 x123 mm
Weight	tbtfkg

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

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