

DENON

Integrated Amplifier

PMA-2000 IV R

Powerful yet Sensitive, the Newly-developed Large-capacity Block Capacitor Provides Greater Support for the Outstanding Expressive Power of UHC-MOS.

The PMA-2000 IV R is loaded with an UHC-MOS single push-pull circuit, leakage canceling (LC) mounted twin transformers, and highly rigid chassis divided into 6 separate blocks, and features a newly-developed large-capacity block capacitor in the power section. This new feature provides greater support for the outstanding expressive power of UHC-MOS and produces a more spacious, dynamic sound from high-quality digital sources such as DVD-Audio and SACD.

The PMA-2000 IV R is also equipped with a power amp direct input terminal that lets you use the PMA-2000 IV R as a stereo power amp. You can also harness the superior performance of the PMA-2000 IV R for use as a power amp for multi-channel output.



Ultra High Current MOS
SINGLE PUSH-PULL CIRCUIT

■ Delicate details on a powerful foundation:

The hallmark of UHC-MOS single push-pull technology

The ultra-high-current (UHC) MOS was developed and subsequently praised for its ability to drive speakers while preserving the delicate details of high-quality music recordings. This amplification device is capable of delivering peak current as much as 3 to 10 times greater than that of conventional MOS-FET devices, resulting in a successful balance between power to drive the speakers and ability to maintain the integrity of delicate musical nuances. From the timbre created by a violin soloist who gently lifts the bow from the strings in a quiet final moment to the grandiose strength of a full orchestra playing in fortissimo, the UHC-MOS single push-pull circuit ensures you will hear all the breadth and details of this sound.

■ Leakage Canceling (LC) Mounted Twin Transformers for Wide Dynamic Range and Low Noise

By employing a large magnetic circuit with low magnetic flux density, the power transformer achieves superior response characteristics capable of accommodating musical signals with a broad dynamic range even in areas of magnetic saturation. The LC mount, which serves to eliminate mutual interference caused by magnetic fields and other factors, significantly reduces leakage flux which is a source of noise inside the amp. The result is a powerful speaker drive that ensures both remarkably transparent speaker output and low noise. The voltage amplification stage and the coiled wiring of the phono equalizer power supply have also been separated, and the transformer for the control circuit that controls signal relays and other functions have been separated as well, to thoroughly eliminate mutual interference between the circuits.

■ Powerful high-current dynamic power circuit with newly-developed large-capacity block capacitor for audio

High-current Schottky barrier diodes in the rectifier circuit have been selected for their low-noise characteristics and high-speed response to provide high-power support for the expressive power of the UHC-MOS circuit. The combination of Denon's newly-developed large-capacity block-type electrolytic capacitor for audio in the power section and the UHC single push-pull circuit supplies plenty of clean current required by the speakers for the entire audible frequency range.

■ Chassis divided into 6 blocks

The power amp block in the PMA-2000 IV R has been designed in a twin monaural configuration separating the left and right channels to ensure high sound quality free of external noise and mutual interference among circuits. To provide thorough shielding at the signal level, steel plates of 1.6 mm thickness coated in black have been used to divide the chassis into 6 blocks, a design that preserves sound quality by preventing interference among the blocks and faithfully reproduces the sonic ambience of the original recording.

■ Wide-Range Play Capability for DVD-Audio or SACD

The power amp circuits of the PMA-2000 IV R have been meticulously designed to reproduce the exceptionally high sound quality with wide frequency response from 10 Hz to 100 kHz in advanced, high-quality digital sources such as DVD-Audio and SACD

■ Power Amp Direct Input

The PMA-2000 IV R provides a power amp direct input that lets you use its superior amplifier performance as a power amp for multi-channel output. The power amp direct input can be used when you set the switch on the rear panel to ON, and multi-channel output is possible when you switch the Input Selector on the front panel to AUX-2/Amp Direct. Since the PMA-2000 IV R operates as an integrated amp in the other positions, you can easily decide whether you want to use the PMA-2000 IV R as a multi-channel power amp or an integrated amp. Denon engineers have also devoted considerable attention to preserving sound quality in these instances by selecting the best quality relays and other parts.

■ PRE OUT terminal

The PMA-2000 IV R's PRE OUT terminal lets you connect a subwoofer to your system. Thorough attention to sound quality is again in evidence here in that PRE OUT output occurs through a discrete-configured MOS-FET flat amp inherited from Denon's high-end PRA-S1 pre-amp.

■ Precision Mechanical Ground Construction, to Thoroughly Suppress Vibration

Radiator stabilizers and radiators dampened with elastic rubber have been mounted directly near feet endowed with high vibration absorption characteristics, in order to minimize the effects of vibration from the power transformer and other sources. The top cover is also impervious to vibration, as is the volume knob which can easily transmit vibration to the signal as well. The PMA-2000 IV R ensures that vibration is thoroughly absorbed in all possible areas so that it can deliver consistently high sound quality.

■ Precision Signal Ground Circuit, to Preserve Signal Purity

In the PMA-2000 IV R, the adverse effects of noise from the constant current circuit and other sources onto the signal as it passes through the power amp stage are minimized by the careful placement of ground points for each circuit. The signal is thus amplified under ideal conditions to produce an eminently clean, transparent sound.

■ Large, Gold-Plated Speaker Terminals Supporting Bi-Wiring

The speaker terminals on the PMA-2000 IV R feature gold plating on precut brass to minimize signal transfer loss. The hole diameter of the clamp section is a generous 6 mm, allowing sufficient room to connect even super-thick speaker cables. Two sets of terminals have been provided, and bi-wiring is also supported.

■ High-Performance Phono Equalizer

The PMA-2000 IV R includes a high-performance Phono equalizer that employs a first-stage circuit in a discrete configuration with low-noise FETs. This equalizer allows lovers of analog music sources to enjoy high-quality playback via a dedicated stable power supply. A simple switch selection permits use of a MM or MC cartridge.

Specifications

■ Power Amplifier Section

Rated output power . . . 80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.07 %)
 160 W + 160 W (4 ohms, DIN, 1 kHz, THD 0.7 %)
 Total harmonic distortion . . . 0.01 % (-3 dB at rated output 8 ohms)
 Input sensitivity/Input impedance
 P. DIRECT 0.9 V / 47 kohms
 Amplifier factor 29 dB

■ Preamplifier Section

Input sensitivity/Impedance
 PHONO(MM) 2.5 mV/47 kohms
 PHONO (MC) 0.2 mV/100 ohms
 CD, TUNER, DVD/AUX-1, AUX-2,
 TAPE-1/DAT, TAPE-2/MD . . . 135 mV/12 kohms (Source Direct ON)
 PRE out 0.9 V (at 135 mV input)
 RIAA deviation 20 Hz - 20 kHz ±0.5 dB(MM)

■ Overall characteristics

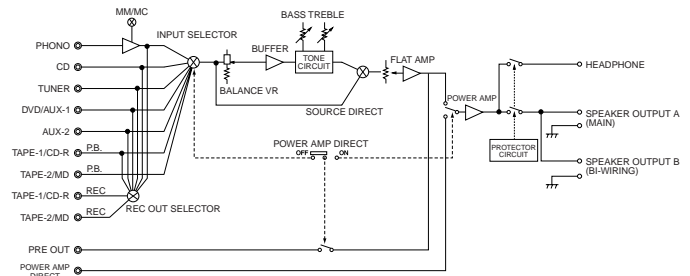
Frequency response . . . 5 Hz - 100 kHz (0,-3 dB)
 Signal-to-noise ratio (A-weighted)
 PHONO (MM)/(MC) . . . 89 dB (at 5 mV input) / 74 dB (at 0.5 mV input)
 CD, TUNER, DVD/AUX-1, AUX-2, TAPE-1/CD-R,
 TAPE-2/MD 108 dB (input terminals shorted/ Source Direct ON)
 Tone control 100 Hz ±8 dB (Bass), 10 kHz ±8 dB (Treble)

■ General

Power supply AC 120 V, 60 Hz
 Power consumption . . . 6.0 A
 Dimensions 17.1 (W) x 7.1 (H) x 18.8 (D) inch
 434 (W) x 180 (H) x 478 (D) mm

Weight 52 lbs 14.7 oz, 24.0 kg

■ REMOTE CONTROL UNIT (RC-858)



*Design and specifications are subject to change without notice.

