

New model information

PMA-A100

Integrated Amplifier

DENON

Special edition of integrated amplifier
celebrating our 100th anniversary

100th
Anniversary
since 1910



Where Past and Future Meet

The PMA-A100 is an integrated amplifier and the fruit of many years of Denon audio technology development. To further improve the expressiveness of its sound quality, the amplifier inherits the UHC-MOS Single Push-Pull output circuit and features a newly engineered construction, forming a solid foundation for a pure, clean audio.

The Signatures of Quality.

This high-performance edition includes special anniversary tuning, superior construction and parts, including a larger, upgraded speaker terminal, cast iron footing for less vibration and higher sound quality, and 100th anniversary signature badge affixed to the facing of the amplifier. Each PMA-A100 in the collection has been hand tested and tuned by Denon engineers.

The PMA-A100's glossy black finish includes the 100th anniversary logo badge, and comes with a 5-year warranty and a signed certificate of authenticity from the chief production engineer who hand crafted the product. Also included is a beautiful Denon "brand book" that explores the history of one of the leading names in the audio-visual field.



Special Edition 100th Anniversary Series



High quality audio

• UHC-MOS Single Push-Pull Circuit

The PMA-A100 features UHC (Ultra High Current) MOS circuitry that has been developed to balance advanced speaker drive capabilities and improved sound quality. UHC-MOS technology uses a minimum number of amplifier elements while achieving approximately 10 times the normal supply of current, balancing artistic expression with high output power. The PMA-A100 thus masterfully reproduces the full sonic range from soft delicate details to powerful transparent climaxes of a musical performance.

• Powerful high current dynamic power circuit

The preamp power circuit that requires stable voltage and the output stage power circuit that requires a large current supply have been placed independently from the stage of the power transformer coils. This configuration of the power circuitry that eliminates adverse influences caused by the operating current of the output stage significantly enhances the resolution of the preamp stage handling low level signals. On the other hand, large-current Schottky barrier diodes have been used for the rectifier elements to support the expressiveness of the UHC-MOS with their low-noise characteristics and high-speed operation. And a large-capacity, block-type electrode capacitor for audio applications has been used for the power capacitor.

This power circuitry supplies clean, stable power to realise a sound space that eminently balances delicate musical nuances and high power.



• Precision Mechanical Ground Construction

The vibration-resistant construction was reviewed to ensure that the adverse influences of vibration on sound quality are thoroughly suppressed. The power transformer, a major source of vibration, has been "float" mounted using a variety of vibration-resistant materials. The radiator has been dampened with a vibration resistant material and a radiator stabiliser, and by mounting the radiator near the foot, interference with the power transformer and other sources of vibration is minimised. In addition, the depth dimension is shorter than previous models and the chassis mounting has been redesigned to improve resistance to vibration.

- The shorter distance between feet guides vibration more easily to the feet.

- The radiator mounting to the chassis has been given a lower centre of gravity to further facilitate vibration guidance to the feet.

- Fins of different thicknesses have been used in the radiator to eliminate the adverse effects of resonance.

These and other measures to minimise the effects of both internal and external vibration, such as in the mounting and placement of the various parts, contribute to impeccable sound transparency and improved localization.

• Cast iron feet to minimize vibration



Ultra High Current MOS
SINGLE PUSH-PULL CIRCUIT

• Twin transformers with leakage cancelling mount

Two transformers have been connected in parallel to dramatically improve electrical and magnetic characteristics.

The Leakage Cancelling (LC) mount-in system, a method of cancelling mutual magnetic influences, has been used to minimise the leaking of magnetic flux, a source of noise inside the amp. The method in which the transformers were mounted also used a combination of special resins and vibration-resistant materials that produce a floating effect to prevent adverse influences from affecting sound quality.

• Accurate Volume Control with Large size diameter

• Wide range play capability for Super Audio CD

• Parts strictly selected for high sound quality



Ease of use

• RC for both AMP & CD operation

The remote control unit that comes with the PMA-A100 also lets you operate Denon DCD-A100 CD player. High-grade tactile buttons and other features make this remote extremely easy to use.



Eco friendly design

• Low standby for ecology (0.3W)

The very low standby power consumption of about 0.3W minimises the PMA-A100's impact on the environment.

Ports

In		
Phono (MM/MC)		x 1
CD		x 1
Tuner		x 1
Line-1		x 1
Line-2		x 1
Recorder-1 (Playback)		x 1
Recorder-2 (Playback)		x 1
Out		
Recorder-1 (REC)		x 1
Recorder-2 (REC)		x 1
Preout		x 1
Power amp direct		x 1

Main Specifications

Power amplifier section

Rated output	80 W + 80 W (8 Ω, 20 Hz - 20 kHz, THD 0.07%) 160 W + 160 W (4 Ω, 1 kHz, THD 0.7%)
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Total harmonic distortion	0.01% (rated output -3 dB, 8 Ω, 1 kHz)
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Input sensitivity / Impedance

Power Amp Direct : 0.9 V/47 kΩ

Preamplifier section

Phono equalizer rated output

150 mV

Input sensitivity / Impedance

LINE 135 mV / 47 kΩ (Source direct OFF)

PHONO MM 2.5 mV / 47 kΩ

PHONO MC 200 μV / 100Ω

RIAA deviation PHONO 20 Hz - 20 kHz, ±0.5 dB (MM)
PHONO 30 Hz - 20 kHz, ±0.5 dB (MC)

General Characteristics

Signal-to-noise ratio (IHF A network)

LINE 108 dB (Source Direct: ON)

PHONO MM 89 dB

(input terminals shorted, input signal 5 mV)

PHONO MC 74 dB

(input terminals shorted, input signal 0.5 mV)

Tone controls

BASS 100 Hz, ±8 dB

TREBLE 10 kHz, ±8 dB

General

Power supply AC 230 V, 50 Hz

Power consumption 310 W (Stand-by: less than 0.3W)

Dimensions (W x H x D) 434 x 181 x 435 mm

Weight 25.8 kg

*Design and specifications are subject to change without notice.

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