

New model information

# PMA-A100

Integrated Amplifier

# DENON

Special edition integrated amplifier  
celebrating our 100th anniversary

**100**<sup>th</sup>  
*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 and tonal accuracy of its sound quality, the amplifier incorporates our exclusive UHC-MOS Single Push-Pull output circuit and features a newly engineered construction, forming a solid foundation for 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 front panel. 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 the amplifier 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 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 stage. This power circuitry supplies clean, stable power to realize 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 thermal radiator has been dampened with a vibration resistant material and a radiator stabilizer, and by mounting the radiator near the foot, interference with the power transformer and other sources of vibration is minimized. 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 center 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 minimize 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.



### • Twin transformers with leakage cancelling mount

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

The Leakage Cancelling (LC) mounting system, a method of cancelling mutual magnetic influences, has been used to mini-

mize the leaking of magnetic flux, a source of noise inside the amplifier. The method in which the transformers were mounted also uses 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 playback capability for Super Audio CD

### • Parts strictly selected for highest 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 SACD 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 minimizes the PMA-A100's impact on the environment.

\*Design and specifications are subject to change without notice.



## Ultra High Current MOS

SINGLE PUSH-PULL CIRCUIT

## 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                          |
| Total harmonic distortion | (4 Ω, 1 kHz, THD 0.7%)                 |
|                           | 0.01% (rated output -3 dB, 8 Ω, 1 kHz) |

### 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 120 V, 60 Hz                  |
| Power consumption      | 310 W (Stand-by: less than 0.3W) |
| Dimensions (W x H x D) | 17.1" x 7.13" x 17.1"            |
|                        | 434 x 181 x 435 mm               |
| Weight                 | 56.9 lbs, 25.8 kg                |