

# PMA-2010AE

Integrated Amplifier

# DENON

## Integrated amplifier with the fruit of many years of Denon audio technology and experience

To further improve expressiveness in sound, the PMA-2010AE inherits the UHC-MOS Single Push-Pull output circuit and is of a newly-engineered construction, forming a solid foundation for a pure, clean sound. The PMA-2010AE is an integrated amp that emulates high-end models in both elegance and sound quality.



*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

### Features

#### High quality sound

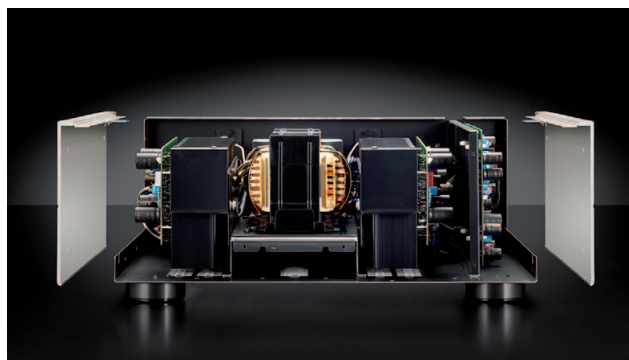
- UHC-MOS Single Push-Pull Circuit, for balancing details and power
- Independent preamp and output stage power supplies, plus powerful high current dynamic power circuit
- Precision Direct Mechanical Ground Construction, to thoroughly suppress vibration
- Chassis construction with 6 independent blocks
- Twin transformers with leakage cancelling mount
- Minimum signal paths, to protect signal purity
- Precision Signal Ground Circuit, to protect signal purity
- Large, high-grade ø27 mm volume control unit
- Wide range playback, supporting SACD, BD and DVD-Audio

#### Useful Functions

- Newly-designed remote control unit
- Low standby power consumption

#### Others

- High-performance phono equaliser
- Parts strictly selected for high sound quality
- Machined gold-plated pin jacks



## High quality sound

### UHC-MOS Single Push-Pull Circuit, for balancing details and power

The PMA-2010AE 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-2010AE thus masterfully reproduces the full sonic range from soft delicate details to powerful transparent climaxes of a musical performance.

### Precision Direct Mechanical Ground Construction, to thoroughly suppress vibration

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 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 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 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.

### Chassis construction with 6 independent blocks

The PMA-2010AE features a twin monaural axisymmetric construction with separate power amp

blocks for the left and right channels to prevent mutual interference between the circuits, shut out noise, and obtain a clear stereo image. Circuits with different signal levels have been isolated into six separate blocks. And 1.6mm thick black-coated steel plates have been used for chassis to eliminate sound coloration caused by mutual interference between the blocks and ensure the playback of sound with a clear sense of space.

### Independent preamp and output stage power supplies, plus 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.

### 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.

### Minimum signal paths, to protect signal purity

Signal paths have been made thoroughly simple and straight to ensure a pure playback sound. The

minimization of signal paths prevents signal degradation between circuits. In the amplifier stage, minimum signal paths reduce noise entering the ground circuit, a fundamental component in signal amplification, and stabilizes ground potential. When the operating foundation of the amplifier circuit is clear, the playback sound is also clear.

### Precision Signal Ground Circuit, to protect signal purity

The Precision Signal Ground circuit, a standard for signal amplification, minimizes the effects of noise in the ground circuit to ensure a stable ground phase. The PMA-2010AE employs copper plates on the ground side of the block capacitors for both the left and right channels to ensure direct flow to the ground. This design results in a clean, transparent sound, since the signal is amplified under ideal conditions.

### Large, high-grade ø27 mm volume control unit

The PMA-2010AE uses an unusually large ø27 mm volume control unit that suppresses external noise and vibration to enable accurate volume control.

### Wide range playback, supporting Super Audio CD, BD and DVD-Audio

### Useful function

#### Newly-designed remote control unit

The remote control unit that comes with the PMA-2010AE also lets you operate Denon DCD-2010AE CD player. High-grade tactile buttons and other features make this remote extremely easy to use.

#### Low standby power consumption

The very low standby power consumption of about 0.3W minimizes the PMA-2010AE's impact on the environment.

### Others

- High-performance phono equalizer (MM/MC)
- Parts strictly selected for high sound quality
- Machined gold-plated pin jacks

### 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
Out	Recorder-2 (Playback)	x 1
	Power amp direct	x 1
	Recorder-1 (REC)	x 1
	Recorder-2 (REC)	x 1
	Preout	x 1

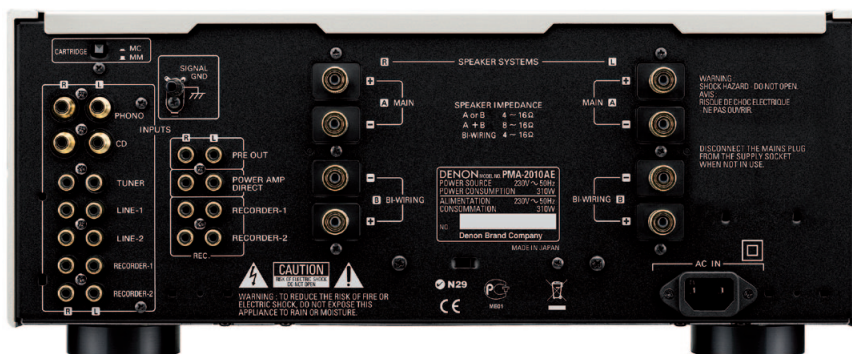
### EAN

PMA2010AESPE2 4582116363683

### 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%)
Total harmonic distortion	0.01% (rated output -3 dB, 8 Ω, 1 kHz)
Input sensitivity / Impedance	Power Amp Direct : 0.9 V/47 kΩ
Preamplifier section	
Phono equaliser 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	
<b>Signal-to-noise ratio (IHF A network)</b>	
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	AC230V, 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	24.0 kg



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