Integrated Amplifier

PMA-500AE

DENON

■ **High Current (HC) Single Push-Pull Circuit to balance details and power**
The PMA-500AE's HC Single Push-Pull Circuit, for dramatically bringing out the amplifier's best ability, inherits the same concept of the UHC Single Push-Pull Circuit that is used in DENON's high-end integrated amplifiers and has been critically acclaimed for the expressive richness of its sound. The HC transistor has twice the capacity of conventional transistors to supply electrical current and handle moments of peak current, ensuring rock-solid stability in musical expression. HC single push-pull technology masterfully balances high power and the delicate nuances of music.

■ **High-speed, large-capacity power circuit**
The combination of this fast recover diode and newly developed custom-made block type capacitor makes a stable power supply possible.

■ **Main transformer with separate power supplies for analog and digital circuits**
The coiled wire of the power transformer for the audio signal and control circuits has been separated to eliminate mutual interference and adverse influences on sound quality. There is also a prepared transformer that is used during remote power-off standby to minimize power consumption during standby and improve environmentally friendly performance.

■ **Thorough design for high sound quality**
The PMA-500AE employs DENON's Signal Level Divided Construction (SLDC) in which the circuits for small and large signals, the microprocessor and other circuits are separated in an ideal manner to minimize interference among the circuits. In addition, a CD/PHONO input relay switch is used to form a straight signal path and maintain signal purity. DENON has also strictly selected parts for high-quality sound and reliable operation, such as DENON's original block type capacitor for sound smoothing, carbon resistors, capacitors and others. The PMA-500AE has been designed for high sound quality in extremely minute detail.

■ **Wide dynamic range playback, supporting a variety of high-grade audio sources**
The PMA-500AE's tone circuit, power amplifier circuit and other areas have been fine-adjusted to secure a frequency response of up to 100 kHz during actual use. Also, improvements in the volume circuit suppress noise in the amplifier during use to achieve a high resolution. These features and others give the PMA-500AE plenty of latitude to handle the wide dynamic range of high-grade audio sources such as Super Audio CD and DVD-Audio.

■ **Microprocessor Stop Mode, for higher sound quality**
The Microprocessor Stop Mode automatically stops all operations of the microprocessor when it is not needed during playback. By stopping the oscillation of the microprocessor's clock during normal listening, the audio signal is protected from noise and the quality of sound is improved.

■ **Source Direct, for clean pure audio playback**
The PMA-500AE includes a Source Direct function that allows the audio signal to bypass the Bass, Treble, Loudness, and Balance control circuits and maintain its purity for optimum sound transparency during playback.

■ **PHONO Equalizer Amp (MM), for connecting an analog record player**

■ **Total design inherited from the premium "SA" models**
The PMA-500AE sports a refined design that inherits the quality of Denon's high-end models and harmonizes well with system upgrades in this series. Color can be chosen from Premium Silver and Black.

■ **Newly-designed System Remote included**
The PMA-500AE's system remote unit controls the main volume, function switching, muting, and remote power on/off (linked with an AC outlet). The system remote also controls DENON CD players, tuners, and cassette decks.

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Specifications

Power Amplifier Section

Rated output
45W + 45W (8Ω, 20 Hz - 20 kHz, THD 0.07%)
70W + 70W (4Ω, 1 kHz, THD 0.7%)

Total harmonic distortion
0.02% (8Ω, 1 kHz)

Pre Amplifier Section

Phono equalizer rated output
150 mV (REC OUT terminal)

Input sensitivity / Impedance
LINE: 100mV/47kΩ (Source Direct: OFF)
100mV/16kΩ (Source Direct: ON)
PHONO: 2.5mV/47kΩ

RIAA deviation

PHONO	20 Hz - 20 kHz, ±0.5 dB

Overall Characteristics

Signal-to-noise ratio (IHF A network)

LINE:	105 dB	(Source Direct: ON)
PHONO MM:	84 dB	(input terminals shorted, input signal 5 mV)

Tone controls

BASS:	100 Hz, ±8 dB
TREBLE:	10 kHz, ±8 dB

General

Power supply
AC230V, 50 Hz

Power consumption
185 W (less than 0.3W at Stand-by)

Dimensions
W434 x H121 x D307 mm

Weight
6.5 kg

*Design and specifications are subject to change without notice.

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