

## DENON PMA 1600NE Silver

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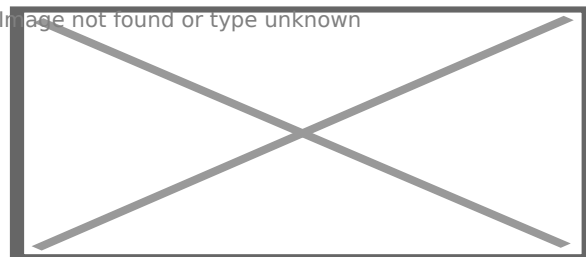
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**Cena: 149.880,00 rsd**

### DENON PMA 1600NE Silver

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Denon is one of the rare audio brands that continued to actively develop Hi-Fi components and accumulate, refine, and pass down Hi-Fi audio technologies.

Thanks to the rear USB-B input and embedded high quality D/A converter, the PMA plays high resolution files up to 384kHz/32bit and DSD up to 11.2MHz from a computer in impeccable sonic quality. For the best performance from analogue inputs, the PMA-1600NE features an Analog Mode which allows to switch off all unutilized sections like the digital input circuitry or the low noise display for an unaltered audio reproduction.

### Highlights

2 x 140 W (4 ohm) output

DAC Master Clock Design

Digital isolator to eliminate high-frequency noise on the USB-B or digital inputs

Analogue AMP mode switching off digital audio circuitry and display

Direct Mechanical Ground Construction

Main transformer with separate power supplies for analogue and digital circuits

Advanced Ultra High Current (UHC) - MOS Single Push-Pull Circuit Power

Rear USB-B input

FL display for source and sample rate indication

Advanced AL32 Processing Plus

Chassis construction with 6 independent blocks

2 Digital Optical and 1 digital Coaxial inputs, MM & MC Phono Equalizer Amp

### Benefits

Enough power even for big rooms

Jitter-free audio reproduction

Enjoy all sources without any unwanted electric noise

Pure analogue audio reproduction

Minimizes unwanted vibration

Preserves audio signal purity

Wide bandwidth sound from deep bass to detailed highs  
High Resolution Audio playback up to 384 kHz / 32 bit and 11.2 MHz DSD

Easily capture most important information  
Digital recordings beautifully faithful to the original sound

Eliminates noises between the circuits

Ready for music from all sources

### Advanced Ultra High Current MOS Single Push-Pull Circuit

The amplifier features Advanced UHC (Ultra High Current)-MOS technology that utilizes a minimum number of high-current amplifier elements to balance advanced speaker drive capabilities and improved sound quality. Advanced UHC-MOS is an ideal amplifier whose power supply performance is superior to that of bipolar transistors and incorporates the sound quality advantages of MOSFETs.

The Advanced UHC-MOS is provided in a single push-pull configuration that eliminates deviations in the amplification stage and balances high power with delicate musical details. This circuit masterfully reproduces the full sonic range, from the delicate musical nuances to the powerful climaxes of rich musical expression.

### **Advanced AL32 Processing Plus supporting 384-kHz/32-bit PCM input**

For digital input, the PMA-1600NE employs Advanced AL32 Processing Plus, the latest version of Denon's analogue waveform reproduction technology which utilizes unique data interpolation algorithms and also supports high-resolution 384-kHz/32-bit PCM signal input. These algorithms interpolate points that should exist before and after the points in large quantities of data to achieve a smooth waveform that is close to that of the original signal. By carefully restoring data that was lost during digital recording, the resulting playback sound is highly detailed, free of interference, accurately localized, richly expressive in the lower range, and beautifully faithful to the original sound.

### **USB-DAC supporting 11.2-MHz DSD and 384-kHz/32-bit PCM**

The PMA-1600NE provides USB-DAC functions that support highresolution up to 11.2-MHz DSD and 384-kHz/32-bit PCM input signals. DSD transmission methods support ASIO native playback and DSD Audio over PCM Frames (DoP). Since asynchronous transfer is controlled by the PMA-1600NE's master clock rather than the clock of a computer the transfer is free of jitter. The D/A converter used in the PMA-1600NE is the same 384-kHz/32-bit and DSD capable top class DAC used in the DCD-1600NE to deliver a clean, high-grade sound.

### **6-block chassis configuration & Direct Mechanical Ground Construction**

The PMA-1600NE's chassis is configured of six independent blocks that house the phono equalizer and input circuitry, volume control circuitry, USB-DAC circuitry, amplification circuitry, power section and the control section. The chassis constructed with 1.0mm thick steel plates protects the signal circuits from external vibration and eliminates the adverse effects of mutual interference among the circuits. The power section has been positioned in the center of the PMA-1600NE. With heat sinks on both sides, this construction of well-balanced mass is in an ideal location to prevent unwanted vibration from affecting sound quality. In addition, the feet supporting the heavy weight of the power transformer, heat sinks, and chassis are made of ABS resin with rigid rib construction.

### **System remote controller and clear view front display**

The PMA-1600NE comes with a system remote control unit that can also operate the DCD-1600NE and other Denon CD players and network audio players. The low noise FL display on the product front panel gives source and sample rate indication.

### **Digital isolator and Analog Mode**

The PMA-1600NE is equipped with a high-speed digital isolator to eliminate adverse influences on sound quality caused by highfrequency noise from a USB-connected computer or from the PMA-1600NE's digital inputs. Since data is transferred magnetically via coils embedded in an IC chip, the input and output sides are electrically isolated. By isolating the signal line between digital audio circuitry and the D/A converter, adverse influences of high-frequency noise on analogue audio circuitry after the D/A converter are eliminated.

### **The PMA-1600NE also adopted a dedicated secondary winding in power transformer for the digital**

circuitry to shut out noise from the power source. During analogue audio playback, the Analog Mode can be used to turn off power to the dedicated digital power source and completely stop operation of the digital input circuitry to avoid any high frequency influence to the analogue section. Analog Mode also turns off the fluorescent display, allowing the PMA-1600NE to operate as a purely analogue amp (during Analog Mode, USB-B, coaxial digital, and optical digital inputs are disabled).

### **MM/MC phono equalizer**

The PMA-1600NE includes a phono equalizer that supports input from both MM and MC cartridges. This phono equalizer has high gain, and as loops in the circuit board pattern can cause adverse effects on sound quality, the "simple & straight" design represents a significant improvement. On the PMA-1600NE, the MM/MC toggle switch was changed from a push type to a relay type, which shortens the pattern on the circuit board and makes signal loops smaller, allowing delicate analogue signals to be amplified with greater purity.

Spec:

## **Denon PMA-1600NE Features and Specifications**

FEATURES	
NUMBER OF CHANNELS - 2	UHC-MOS SINGLE PUSH PULL CIRCUIT
DIGITAL IN - USB-B, 2 X OPTICAL , 1 X COAXIAL	LC MOUNTED TWIN TRANSFORMER
USB-B DSD AUDIO STREAMING (DOP): DSD2.8 / DSD5.6 - <=11.2	USB-B PCM SAMPLE RATE - 384 KHZ / 32 BIT
HIGH CURRENT DYNAMIC POWER SUPPLY	DAC CHIP - PCM1795
POWER AMP DISCRETE CONSTRUCTION	ASYNCHRONOUS MODE REAR USB
MICRO PROCESSOR AUTO OFF	BIT-PERFECT TRANSMISSION
SOLID HEAT SINKS (SEPERATE)	AL 32 PROCESSING - ADVANCE AL32 PLUS
SOURCE DIRECT	POWER AMP DIRECT
ANALOG MODE	STREAMING AUDIO FROM PC
INPUTS/OUTPUTS	
AUDIO INPUTS - 4	POWER AMP DIRECT IN
REMOTE CONTROL BUS IN / OUT	PHONO INPUT: MM/MC
GOLD PLATED CINCH	HEADPHONE OUT
AUDIO INPUTS - 1	NUMBER OF TERMINALS - 2
SPECIFICATIONS	
OUTPUT POWER 8 OHM (20 HZ - 20 KHZ, T.H.D. 0.07%) - 70 W	INPUT SENSITIVITY: MC - 200 $\mu$ V / 100 OHM
TREBLE CONTROL - $\pm$ 8 DB AT 10 ZHZ	BASS CONTROL - $\pm$ 8 DB AT 100 HZ
OUTPUT POWER 4 OHM (1 KHZ, T.H.D. 0.7%) - 140 W	SIGNAL TO NOISE RATIO: MM/MC - 89 DB / 74 DB
TOTAL HARMONIC DISTORTION - 0.01%	INPUT SENSITIVITY: HIGH LEVEL - 125 MV / 47 KOHMS
INPUT SENSITIVITY: MM - 2.5 MV / 47 KOHM	SIGNAL TO NOISE RATIO: HIGH LEVEL - 108 DB
GENERAL	
AUTO POWER OFF	DETACHABLE POWER CABLE
MAXIMUM DIMENSIONS (W X D X H) IN MM - 434 X414 X 135	WEIGHT IN KG - 17.6
POWER CONSUMPTION IN W - 295	REMOTE CONTROL: RC-1213

WEB Manual <http://manuals.denon.com/PMA1600NE/NA/EN/index.php>