



**DENON PMA-1600NE** INTEGRATED AMPLIFIER WITH 140W POWER PER CHANNEL

**DRIVE PRECISION DETAIL IN ALL OF YOUR MUSIC**

**HIGHLIGHTS**

- 2 x 140 W (4 ohm) output
- Advanced Ultra High Current (UHC)-MOS Single-push-pull circuit power
- DAC Master Clock Design
- Rear USB-B input
- Digital isolator to eliminate high-frequency noise on the USB-B or digital inputs
- FL display for source and sample rate indication
- Analog AMP Mode switching off digital audio circuitry and display
- Advanced AL32 Processing Plus
- Direct Mechanical Ground Construction
- Chassis construction with 6 independent blocks
- Main transformer with separate power supplies for analog and digital circuits
- 2 Digital Optical and 1 Digital Coaxial inputs; MM & MC Phono Equalizer Amp
- Available in Black
- Engineered with a more than 100-year Denon legacy in audio excellence

**YOUR BENEFITS**

- Enough power to fill large rooms with sound
- Wide bandwidth sound from deep bass to detailed highs
- Jitter-free audio reproduction
- High-resolution audio playback up to 384 kHz/32-bit and 11.2 MHz DSD
- Enjoy all sources without any unwanted electric noise
- Easily capture most important information
- Pure analog audio reproduction
- Digital recordings beautifully faithful to the original sound with jitter-free audio playback
- Minimizes unwanted vibration
- Eliminates noises between the circuits
- Preserves audio signal purity
- Ready for music from all sources
- Sleek design that complements the DCD-1600NE Super Audio CD Player
- Trust this high-quality and durable system to deliver the ultimate audio experience



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

Provided in a single push-pull configuration, the PMA-1600NE features Advanced UHC-MOS technology 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 peaks of rich musical expression. Advanced UHC (Ultra High Current)-MOS technology utilizes a minimum number of high-current amplifier elements to balance advanced speaker drive capabilities and improve 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.

### Advanced AL32 Processing Plus with 384-kHz/32-bit Support

The PMA-1600NE is equipped with Advanced AL32 Processing Plus, the latest in analog waveform reproduction technology from Denon. Advanced AL32 Processing Plus utilizes data interpolation algorithms, which support high-resolution 384 kHz/32-bit audio sources. The algorithms add in the points that should exist before and after large quantities of data, smoothing out the waveform and restoring information that was lost during the digital recording. The resulting playback is highly detailed, free of interferences, richly expressive in the lower range and beautifully faithful to the original sound. Listen to songs as the artist intended.

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

To accurately synchronize digital circuits, the PMA-1600NE provides USB-DAC functions that support high-resolution up to 11.2-MHz DSD and 384-kHz/32-bit PCM input signals. Crafted with exceptional quality, the DAC suppresses jitter and ensures optimal precision in D/A conversion. In addition, the DSD transmission methods support ASIO native playback and DSD Audio over PCM Frames (DoP). The D/A converter used in the PMA-1600NE is the same 384-kHz/32-bit and DSD capable premium DAC used in the DCD-1600NE to deliver a clean, high-grade sound.

### MM and 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 unlike loops in other circuit board patterns which cause adverse effects on sound quality, the simple, straightforward design of the PMA-1600NE phono equalizer significantly improves sound.

### Optical and Coaxial Digital Inputs

The PMA-1600NE features two Optical inputs and one Coaxial input and supports PCM signals up to 192 kHz/24 bit. These digital inputs help to improve sound and visual quality of your TV audio, Blu-Ray, media players and more. Also use it to input high-resolution sound from an audio source on your computer.

### 6-Block Chassis Configuration & Direct Mechanical Ground Construction

Constructed with 1.0 mm thick steel plates and made of ABS resin with rigid rib construction, the chassis in the PMA-1600NE protects the signal circuits from external vibration and eliminates adverse effects of mutual interference among the circuits. It's configured of six independent blocks that house phono equalizer and input circuitry, volume control circuitry, USB-DAC circuitry, amplification circuitry, power section and the control section. With the power section at the center, feet that support the weight of internal components and heat sinks on both sides, the construction is well-balanced and prevents unwanted vibration from affecting sound quality.

### Digital Isolator and Analog Mode

Equipped with a high-speed digital isolator, the PMA-1600NE eliminates adverse effects on sound quality caused by high-frequency noise from a USB-connect computer or digital inputs. Since data is transferred magnetically via coils embedded in an IC chip, the input and output sides of the PMA-1600NE are electrically isolated. The PMA-1600NE also features a dedicated secondary winding in power transformer for the digital circuitry to shut out noise from the power source. Analog Mode can be used to turn off power to the dedicated digital power source and completely stop operation of the digital input circuitry, avoiding any high frequency influence on the analog section. Analog Mode also turns off the fluorescent display, allowing the PMA-1600NE to operate as a purely analog amp (during Analog Mode, USB-B, coaxial digital, and optical digital inputs are disabled).

### 100+ Years of Firsts in Audio Technology

Founded in 1910, Denon has a deep heritage of "firsts" in audio technology — from Japan's first audio electronics manufacturer, to producing the world's first commercial CDs. This focused investment in audio R&D ensures you get the latest technology and highest quality with every listening experience.



### Technical information

Power amplifier section	
Rated output	70 W + 70 W (20 Hz - 20 kHz, 8 ohms, T.H.D. 0.07%) 140 W + 140 W (1 kHz, 4 ohms, T.H.D. 0.7%)
Total harmonic distortion	0.01% (rated output -3 dB, 8 ohms, 1 kHz)
Input sensitivity / Impedance	
Phono MC	0.2 mV/100 ohms)
Phono MM	2.5 mV/47 kohms
Line	125 mV / 47 kohms (Source Direct: OFF)
Signal-to-noise ratio	
Phono MC	74 dB (0.5 mV input)
Phono MM	89 dB (5 mV input)
Line	108 dB

Tone control	
Treble	± 8 dB at 10 kHz
Bass	± 8 dB at 100 Hz
General	
Power supply	AC 120 V, 60 Hz
Power consumption	295 W (Standby 0.2 W)
Dimensions (W x H x D)	17.1 x 5.3 x 16.1 in
Weight	38.8 lbs
UPC	
PMA1600NEBK3	883795004527
Color	Black

### Ports

IN		
	Phono (MM/MC)	x 1
	Audio input (incl. Phono)	x 4
	Digital Optical	x 2
	Digital Coaxial	x 1
	USB-B	x 1
OUT		
	Rec output	x 1
	Speaker out (Bi-wiring)	A / B