

DENON®

Product Information

# PMA-50



PMA-50

HI-FI STEREO AMPLIFIER

## FULL DIGITAL STEREO AMPLIFIER WITH APPEALING DESIGN AND COMPACT SIZE

The PMA-50 Stereo Amplifier has been created for serious Hi-Fi listeners looking for a compact and high quality design. At the same time, it features next generation music playback options by offering a unique range of digital inputs, including optical, coaxial, USB-B, and even wireless Bluetooth® connectivity. It delivers Denon high quality

sound thanks to the integrated Advanced AL32 Processing. It emits high resolution audio up to 192kHz/24bit, comes with DSD 2.8MHz and 5.6MHz capability and thus delivers a new level of sound quality from any source.



ADVANCED *AL32* PROCESSING

Advanced AL32 Digital Audio Processing

For the ultimate fidelity with 16-bit, 20-bit and 24-bit digital audio tracks, the PMA-50 features Denon's Advanced AL32 digital audio processing system. Featured on Denon's premium audio-ophile disc players and digital audio components, Advanced AL32 processing upconverts, digitally filters and noise-shapes lower bit data to full 32-bits, delivering remarkable dynamic range and noticeably better low level resolution. Your favorite digital audio tracks have never sounded better.

DAC Master Clock Design

In order to reduce jitter, Master Clock is re-generated in the PWM modulator. This Denon Master Clock design ensures that sound is correctly localized and your sound space is thoroughly realistic.

Full Digital Power Amplifier for Powerful and Detailed Sound

The amplifier section incorporates DDFA® technology from CSR. The output stage circuit has a discrete construction which realizes higher Signal-to-Noise-ratio and lower distortion compared to conventional class D amplifiers. This advanced amplifier system delivers superior audio fidelity along with high amplifier efficiency at 50W into 4 ohms.

The premium grade multi-way speaker connectors let you connect speaker cables via bare wire, pin connectors as well as banana plug connectors.

USB-B Input for high resolution audio including PCM and DSD

Via the USB-B input, you can connect your Mac or PC to the PMA-50 and enjoy high resolution audio tracks. The PMA-50 can play high resolution PCM files up to 24-bits/192-kHz along with high resolution DSD 2.8 MHz and 5.6 MHz files (DSD is the advanced digital audio coding system of SACD). A USB-A to USB-B cable is included.

To eliminate induced digital noise via the USB input, the PMA-50 features a dedicated noise isolation block prior to the digital amplifier and D/A conversion block that prevents digital noise from degrading the audio fidelity.

KEY FEATURES

- High quality sound, appealing design Stereo Amplifier
- USB-B DAC for Computer-Direct connectivity and high-resolution audio reproduction
- Digital optical/coaxial and analog inputs
- Bluetooth aptX Low Latency CD quality wireless streaming with NFC pairing

Multiple Digital Audio Inputs; Analog Stereo Input

In addition to the USB-B input, the PMA-50 features 2 optical digital audio inputs and 1 coaxial digital audio input. There's also a stereo analog input for connection to legacy analog sources.

Bluetooth Wireless Connectivity with NFC™ and Multi-Point

Stream your favorite audio tracks from your portable devices via the PMA-50's Bluetooth connectivity, which features quick and easy pairing via the Bluetooth button on the front panel. Simply activate the Bluetooth function on your device, press the Bluetooth button on the front panel or the remote control and when prompted, enter the supplied 4 digit passcode on your device. Your device and the PMA-50 are instantly paired and up to 8 devices can be remembered.

For even faster pairing, the PMA-50 features NFC (Near Field Communication). Simply activate your NFC-enabled Bluetooth device and place it next to the N mark on the PMA-50 (located on the side panel), and it's instantly paired with no need for manual passcode entry.

Plus, the PMA-50 features Multi-point Bluetooth connectivity which allows 3 Bluetooth-enabled devices to be connected simultaneously. Play tracks from 1 device and when it's paused or stopped and another paired device's play function is activated the PMA-50 automatically switches to that device. The front panel display shows the name of the currently selected Bluetooth device.

aptX® Low Latency Decoding

For CD-quality audio playback, the PMA-50 features the latest generation CSR aptX Low Latency decoding, which provides optimum time synchronization when playing back audio from video sources with no lip sync issues.

Compact Chassis with Vertical or Horizontal Placement

The stylish and elegant compact chassis features deluxe finishes including soft aluminum matte with bright silver tone accents and glossy and matte black surfaces.

For optimum placement versatility the PMA-50 can be positioned either horizontally or vertically and it features removable feet and screw caps that are quickly and easily re-configured.

Clear View OLED Display

The OLED display shows the source selected via graphical icons and text as well as the sampling frequency and data format of digital sources.

The PMA-50 features an automatic display orientation function that detects if the amplifier is mounted vertically or horizontally and adjusts the display accordingly.

High Quality Headphone Output with Selectable Headphone Impedance

For top audio fidelity the PMA-50 is equipped with a dedicated headphone amplifier circuit that features a high speed ultra low distortion wideband op amp that's paired with a fully discrete final output stage.

In order to accommodate the widest range of headphone types, the PMA-50 features an adjustable headphone impedance control, with 3 settings for low, medium and high impedance headphones which provide proper matching of headphone impedance and amplifier gain.

The headphone jack features a 3.5mm connector for compatibility with premium home and professional studio headphone models.

Ergonomic Remote Control

The supplied remote control features an ergonomically-designed layout that includes a cursor keypad, source select and volume controls, setup menu and back buttons, a Bluetooth button and a display dimmer button.

EASE-OF-USE AND OTHER FEATURES

- Horizontal or vertical placement with rotating display
- Easy-to-use remote control
- Auto Standby and low power consumption at stand-by 0.2 W

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\* All specs can be subject to change  
\* Available in silver/black

NA	PMA50SPE3	8-83795-00346-9	Black
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Technical information			
<b>Number of power amps</b>		<b>Bluetooth</b>	
Power output	2	Compatible Bluetooth profiles	A2DP/AVRCP
	25 W+25 W (8 Ω/ohms, 1 kHz, T.H.D. 0.1 %)	Supported codecs	aptX low latency/AAC/SBC
Speaker impedance	50 W+50 W (4 Ω/ohms, 1 kHz, T.H.D. 1.0 %)	NFC Bluetooth pairing	•
	4 - 16 ohms	Multi-pairing	8
USB-B Audio Streaming	PCM 192/24, DSD2.8, DSD5.6	Multi-point	3
Sample Rate digital In	PCM 192/24	<b>General</b>	AC 120 V, 60 Hz
Computer noise isolation block	•		
Advanced AL32 Processing	•		
DAC Master Clock Design	•		
Dual Clock (44.1/48)	•	Power supply	35 W (Standby 0.2 W)
		Power consumption	7.87 x 3.39 x 10.16 inches
		Dimensions (W x H x D)	5.51 lbs.
		Weight	

[V02]

Ports		
IN	Digital Optical	x 2
	Digital Coaxial	x 1
	USB-B	x 1
	AUX in	x 1
OUT	Subwoofer pre out	x 1
	Speaker output terminals	x 2
	Headphones	x 1