

## Denon PMA-600NE

# Denon PMA-600NE Stereo Integrated Amplifier User Manual

Model: PMA-600NE | Brand: Denon

## INTRODUCTION

The Denon PMA-600NE is a stereo integrated amplifier designed to deliver high-fidelity audio performance. It features robust power output, versatile connectivity options including digital inputs and Bluetooth, and a built-in phono pre-amplifier, making it suitable for a wide range of audio sources and setups. This manual provides detailed instructions for the setup, operation, and maintenance of your PMA-600NE amplifier.



Figure 1: Front view of the Denon PMA-600NE Integrated Amplifier.

## KEY FEATURES

- **70W x 2 Channels (4 Ohm):** Provides ample power to drive a wide range of speakers.
- **Built-in DAC:** High-resolution 192kHz/24bit Digital-to-Analog Converter for superior digital audio playback.
- **Phono Pre-Amp:** Integrated phono equalizer for direct connection of turntables with Moving Magnet (MM) cartridges.
- **Bluetooth Connectivity:** Seamless wireless streaming from compatible devices.
- **Analog Mode:** Disengages digital circuits and Bluetooth for a pure analog audio experience.

- **Advanced High Current (AHC) Single-Push-Pull Circuit:** Delivers powerful and detailed sound.
- **Multiple Digital Inputs:** Two optical and one coaxial input for connecting various digital sources.
- **Subwoofer Pre-Out:** Dedicated output for connecting an active subwoofer.

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Video 1: An overview of the Denon PMA-600NE Stereo Integrated Amplifier's features and capabilities.

## SETUP

### 1. Unpacking and Placement

Carefully remove the amplifier and all accessories from the packaging. Place the PMA-600NE on a stable, flat surface with adequate ventilation to prevent overheating. Avoid placing it near heat sources or in direct sunlight.

### 2. Connecting Speakers

The PMA-600NE supports one pair of stereo speakers with an impedance of 4 to 16 ohms. Use high-quality speaker cables for optimal sound performance.

1. Ensure the amplifier is turned off and unplugged from the power outlet.
2. Connect the positive (+) terminal of the left speaker to the L (+) terminal on the amplifier.
3. Connect the negative (-) terminal of the left speaker to the L (-) terminal on the amplifier.
4. Repeat the process for the right speaker, connecting to the R (+) and R (-) terminals.
5. Tighten all speaker terminal connections securely.

### 3. Connecting Audio Sources

The PMA-600NE offers various inputs for your audio components.

- **CD Player:** Connect your CD player to the "CD" analog input using RCA cables.
- **Turntable (Phono):** Connect your turntable to the "PHONO" input. Ensure your turntable has a Moving Magnet (MM) cartridge. If your turntable has a Moving Coil (MC) cartridge or no built-in pre-amp, an external phono pre-amp may be required.
- **Digital Sources (TV, Blu-ray Player):** Use optical cables to connect to "OPTICAL 1" or "OPTICAL 2" inputs, or a coaxial cable to the "COAXIAL" input.
- **Other Analog Devices (Network Player, Auxiliary):** Connect to the "NETWORK" or "AUX" analog inputs using RCA cables.
- **Subwoofer:** Connect an active subwoofer to the "PRE OUT SUBWOOFER" RCA output.



Figure 2: Angled view showing the front panel controls and inputs.

## OPERATION

### 1. Power On/Off

Press the **POWER** button on the front panel or the remote control to turn the amplifier on or off.

### 2. Input Selection

Rotate the **INPUT SELECTOR** knob on the front panel or use the input selection buttons on the remote control to choose your desired audio source (CD, Phono, Optical 1/2, Coaxial, Network, Aux, Bluetooth).



Figure 3: Denon PMA-600NE with its included remote control.

### 3. Volume Control

Adjust the listening volume using the large **VOLUME** knob on the front panel or the **VOLUME +/-** buttons on the remote control.



Figure 4: Close-up view of the volume control knob.

## 4. Tone Controls and Balance

Use the **BASS**, **TREBLE**, and **BALANCE** knobs on the front panel to fine-tune the sound to your preference. The **SOURCE DIRECT** button bypasses these controls for a purer audio path.

## 5. Analog Mode

Press the **ANALOG MODE** button to disable all digital circuits and Bluetooth, providing an uncompromised analog audio experience. This is ideal for listening to analog sources like turntables or CD players connected via RCA.

## 6. Bluetooth Pairing

To pair a Bluetooth device:

1. Select "Bluetooth" as the input source using the INPUT SELECTOR.
2. Press and hold the **BLUETOOTH PAIRING** button on the front panel until the Bluetooth indicator flashes.
3. Enable Bluetooth on your mobile device and select "Denon PMA-600NE" from the list of available devices.
4. Once paired, the Bluetooth indicator will glow steadily.

## 7. Headphone Use

Connect headphones to the **PHONES** jack on the front panel. Connecting headphones will automatically mute the speaker outputs.

## MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure proper ventilation by keeping the top and sides of the amplifier clear of obstructions.
- **Power Cord:** Regularly check the power cord for any damage.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outage	Check power cord connection; Check household circuit breaker
No sound	Incorrect input selected; Speaker cables loose; Volume too low; Mute activated	Select correct input; Check speaker connections; Increase volume; Deactivate mute
Bluetooth pairing fails	Device too far; Amplifier not in pairing mode; Interference	Move device closer; Re-enter pairing mode; Reduce interference from other devices
Humming noise from speakers	Ground loop; Poor cable shielding; Nearby electronic interference	Ensure proper grounding; Use shielded cables; Move amplifier away from other electronics

## SPECIFICATIONS

Feature	Detail
Power Output	70W + 70W (4 ohms, 1 kHz, THD 0.7%)
Frequency Response	20 Hz – 20 kHz
Input Sensitivity/Impedance	PHONO (MM): 2.5 mV / 47 kohms CD, NETWORK, AUX, RECORDER: 100 mV / 47 kohms
Digital Inputs	2 Optical, 1 Coaxial
Analog Inputs	PHONO (MM), CD, NETWORK, AUX, RECORDER
Output Terminals	Speakers A/B, Headphone, Subwoofer Pre-Out
Bluetooth	Supported
Dimensions (W x D x H)	17.1 x 12.1 x 4.76 inches (434 x 307 x 121 mm)
Weight	18 pounds (8.2 kg)
Power Consumption	180 W (Standby: 0.3 W)

## WHAT'S IN THE BOX

The following items are included with your Denon PMA-600NE:

- Denon PMA-600NE Stereo Integrated Amplifier
- Remote control unit
- R03/AAA batteries (for remote control)
- Quick Start Guide CD-ROM (contains Owner's Manual)
- Safety Instructions
- Cautions on Using Batteries
- Power Cord

## WARRANTY AND SUPPORT

Your Denon PMA-600NE amplifier is covered by a manufacturer's warranty. Please refer to the warranty information provided in the Quick Start Guide CD-ROM for details regarding coverage and duration.

For technical support, product registration, or service inquiries, please visit the official Denon website or contact Denon customer service. Contact information can typically be found in the included documentation or on the Denon website.