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## BASN PA60

# BASN PA60 Portable USB-C DAC Headphone Amplifier User Manual

Model: PA60

## 1. INTRODUCTION

The BASN PA60 is a portable USB-C Digital-to-Analog Converter (DAC) and headphone amplifier designed to enhance audio quality from various devices. It features advanced decoding capabilities and multiple output options for a superior listening experience.



*Image: The BASN PA60 portable DAC dongle, showcasing its compact design and high-resolution audio capabilities.*

## 2. PACKAGE CONTENTS

Verify that all items are present in your package:

- BASN PA60 Portable USB-C DAC Headphone Amplifier

- USB-C to USB-C Cable
- USB-C to USB-A Adapter
- User Manual (this document)



*Image: The BASN PA60 device connected via its silver-plated USB-C cable to a laptop, with a USB-A adapter visible. This illustrates the included accessories.*

### 3. PRODUCT OVERVIEW

The BASN PA60 features a compact aluminum alloy design with intuitive controls and versatile connectivity.

#### 3.1 Device Layout



Image: A detailed view of the BASN PA60 DAC amp dongle, highlighting its control buttons and ports.

- **USB-C Input:** For connecting to source devices.
- **3.5mm Single-Ended Output:** Standard headphone jack.
- **4.4mm Balanced Output:** For balanced headphones, offering enhanced audio performance.
- **Volume Buttons (+/-):** Adjusts audio output level.
- **Mode Button (M):** Cycles through digital filters and UAC modes.
- **LED Indicator:** Displays current UAC mode, gain setting, and sample rate.



*Image: Close-up of the BASN PA60 showing the USB-C input, 3.5mm and 4.4mm outputs, and control buttons.*

## 4. SETUP INSTRUCTIONS

Follow these steps to set up your BASN PA60:

- 1. Connect Headphones:** Plug your headphones or In-Ear Monitors (IEMs) into either the 3.5mm single-ended or 4.4mm balanced output port on the BASN PA60.
- 2. Connect to Source Device:**
  - For devices with a USB-C port (e.g., Android phone, iPad, MacBook, Windows PC): Use the provided USB-C to USB-C cable to connect the PA60 to your device.
  - For devices with a USB-A port (e.g., desktop PC): Use the provided USB-C to USB-C cable with the USB-C to USB-A adapter to connect the PA60 to your device.
  - For devices with a Lightning port (e.g., iPhone): An additional Lightning to USB-C cable (not included) is required.
- 3. Power On:** The PA60 is driver-free and will power on automatically once connected to a compatible source device. The LED indicator will illuminate.
- 4. Select UAC Mode (for gaming consoles):** For broad compatibility with gaming consoles like Nintendo Switch and PS5, you may need to switch to UAC 1.0 mode. To do this, press and hold the 'M' button while connecting the PA60 to your device. Hold until the LED flashes red for UAC 1.0 mode.



*Image: Diagram illustrating the driver-free plug-and-play functionality and the process for switching between UAC 1.0 and UAC 2.0 modes for gaming consoles.*

**Note:** The 3.5mm and 4.4mm jacks cannot be used simultaneously. For optimal performance with 4.4mm balanced output, use earphones with a native 4.4mm connector.

## 5. OPERATING INSTRUCTIONS

### 5.1 Volume Control

The BASN PA60 features a precise 60-step volume adjustment, independent of your source device's volume. This allows for fine-tuning audio levels without compromising sound quality.

- Press the '+' button once to increase volume by 1 level.
- Press and hold the '+' button for continuous volume increase.
- Press the '-' button once to decrease volume by 1 level.
- Press and hold the '-' button for continuous volume decrease.



*Image: The BASN PA60 with an arrow indicating its 60-level stepless smooth volume control, ensuring no detail is lost.*

## 5.2 Gain Adjustment

The PA60 includes intelligent impedance detection to automatically select the appropriate gain setting (high or low) for your headphones or IEMs. You can also manually switch the gain mode.

- To manually switch between high and low gain modes, long-press the 'M' button for 1-2 seconds.
- The LED indicator will change color to show the current gain setting (refer to LED Indicator section for details).



Image: Two BASN PA60 devices, one black and one blue, illustrating the switchable high and low gain feature with intelligent impedance detection.

### 5.3 Digital Filters

The PA60 offers 8 selectable digital filters to customize your sound profile.

- To cycle through the filter modes, press the 'M' button.
- The white light on the device will flash once for each mode, and twice for the eighth mode, to indicate the selected filter.

**8 Built-in Filters for Richer Sound**  
Your tiny sound lab

Filter Mode	Filter Name
Mode 1	Minimum phase
Mode 2	Linear phase fast roll-off apodizing
Mode 3	Linear phase fast roll-off
Mode 4	Linear phase fast roll-off low ripple
Mode 5	Linear phase slow roll-off
Mode 6	Minimum phase fast roll-off
Mode 7	Minimum phase slow roll-off
Mode 8	Minimum phase slow roll-off low dispersion

Image: A table listing the 8 built-in filter modes and their names, with the BASN PA60 device in the background.

## 5.4 LED Indicator Guide

The LED indicator provides visual feedback on the device's status:

UAC Mode	Gain Setting	LED Color	Sample Rate
UAC 1.0	Low Gain	Red (Flashing)	N/A
UAC 1.0	High Gain	Yellow (Flashing)	N/A
UAC 2.0	Low Gain	Red	PCM 44.1k/48k
UAC 2.0	Low Gain	Green	PCM 88.2k~768k
UAC 2.0	Low Gain	Blue	DSD
UAC 2.0	High Gain	Yellow	PCM 44.1k/48k
UAC 2.0	High Gain	Cyan	PCM 88.2k~768k
UAC 2.0	High Gain	Purple	DSD

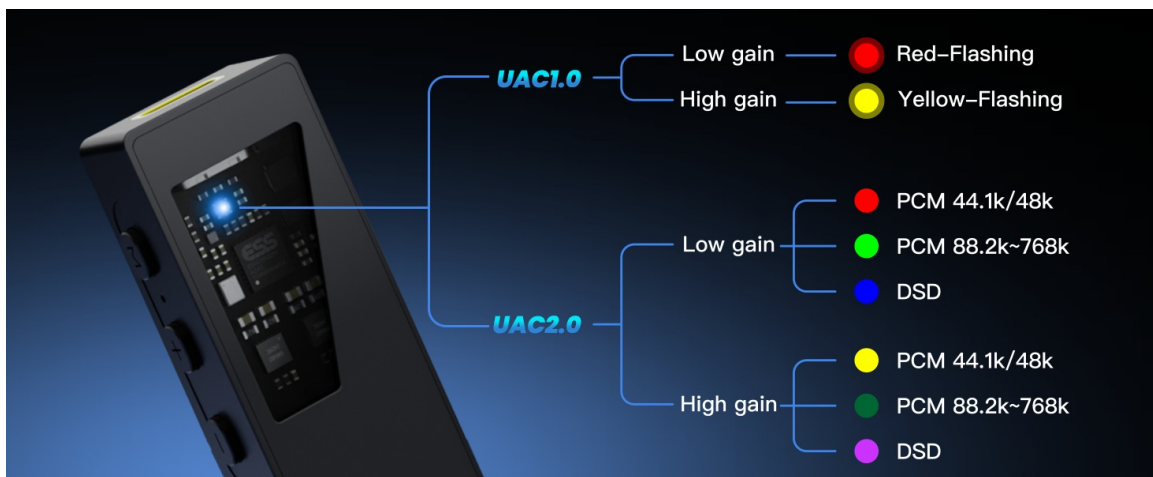


Image: Diagram illustrating the LED indicator colors corresponding to UAC modes, gain settings, and audio sample rates.

## 6. COMPATIBILITY

The BASN PA60 offers extensive compatibility with various devices:

- Android smartphones and tablets
- iPhones and iPads (requires additional Lightning to USB-C cable)
- MacBook and other macOS computers
- Windows PC laptops and desktops (Windows 7/8/10/11)
- Gaming Consoles: Nintendo Switch, PS5



Image: The BASN PA60 connected to a Nintendo Switch and a PS5 controller, demonstrating its compatibility with gaming consoles.

## 7. SPECIFICATIONS

Feature	Detail
DAC Chip	ESS ES9039Q2M
USB Chip	CT7601PR
Decoding Capability	PCM 768kHz/32-bit, DSD512
Outputs	3.5mm Single-Ended, 4.4mm Balanced
THD+N	<0.00056%
S/N Ratio @ 32Ω	122dB
Dynamic Range @ 32Ω	122dB
Idle Noise	<1.6uV (SE)
Output Power @ 32Ω	2*125mW (SE), 2*240mW (BAL)
Frequency Range	20Hz - 768kHz
Volume Control	60-step independent adjustment
Gain Settings	High & Low (with intelligent impedance detection)
Digital Filters	8 selectable modes
UAC Support	UAC 1.0 & UAC 2.0
Enclosure Material	Aluminum Alloy
Dimensions	53mm x 20mm x 15mm (approx. 2" x 0.8" x 0.6")
Weight	17g (approx. 0.6 oz)



Image: A comprehensive table detailing the technical specifications of the BASN PA60, including DAC chip, decoding support, and output power.

## 8. TROUBLESHOOTING

If you encounter issues with your BASN PA60, refer to the following common problems and solutions:

- **No Sound Output:**

- Ensure the PA60 is securely connected to both your source device and headphones.
- Check the volume level on both the PA60 and your source device.
- Verify that the correct audio output device is selected on your computer or smartphone settings.
- Confirm that the 3.5mm and 4.4mm outputs are not used simultaneously.

- **Low Volume or Distortion:**

- Adjust the gain setting on the PA60 (long-press 'M' button) to match your headphones' impedance.
- Ensure your audio source is playing high-quality audio files.
- Check for damaged cables or connectors.

- **Device Not Recognized by PC/Console:**

- Try switching the UAC mode (press and hold 'M' button while connecting for UAC 1.0).
- Ensure your operating system is up to date.
- Try connecting to a different USB port or a different device to isolate the issue.

- **LED Indicator Not Lighting Up:**

- Verify the PA60 is properly connected to a powered source device.
- Ensure the source device is turned on and providing power via its USB port.

## 9. MAINTENANCE

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To ensure the longevity and optimal performance of your BASN PA60:

- Keep the device clean by wiping it with a soft, dry cloth.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Do not attempt to disassemble or modify the device, as this will void the warranty.
- Store the device in a safe place when not in use to prevent physical damage.

## 10. WARRANTY AND SUPPORT

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The BASN PA60 comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For warranty claims, technical support, or any inquiries, please contact BASN customer service through the retailer where you purchased the product or visit the official BASN website for contact information.

**Important:** Please retain your proof of purchase for warranty service.

## 11. PRODUCT VIDEOS

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### 11.1 Portable USB-C DAC Headphone Amplifier 3.5 / 4.4

Your browser does not support the video tag.

*Video: An overview of the BASN PA60 Portable USB-C DAC Headphone Amplifier, demonstrating its features, connectivity, and how it enhances audio quality for both 3.5mm and 4.4mm headphones.*