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AIYIMA H1

AIYIMA H1 Portable Mini Headphone Amplifier

User Manual

Introduction

The AIYIMA H1 is a portable mini headphone amplifier designed to enhance the audio experience from various digital devices. It supports headphones with impedance ranging from 16 to 300Ω, providing high-fidelity stereo sound with low distortion. Its compact size and rechargeable battery make it suitable for on-the-go use.

Package Contents

- 1 x AIYIMA H1 Headphone Amplifier
- 1 x Type-C Charging Cable
- 1 x Audio Line (3.5mm to 3.5mm)

Product Overview

Familiarize yourself with the components and dimensions of your AIYIMA H1 amplifier.

Input:	AUX
Output:	Headphone/active speakers
Op amp chip:	NE5532*2
Signal to noise ratio:	≥111db
Frequency response:	20-20Khz (±0.1db)
Maximum working time:	8 hours
Maximum output power:	170mW/32Q load
Working voltage:	DC5V

Image: AIYIMA H1 Headphone Amplifier with dimensions. The device measures approximately 100mm in length, 62mm in width, and 17mm in height. It features an AUX input, headphone/active speaker output, and a Type-C charging port.

Image: Front and rear view of the AIYIMA H1 amplifier. The front panel includes a 3.5mm output jack (red), a 3.5mm input jack (blue), a power indicator light, and a red volume control knob which also functions as the ON/OFF switch. The rear panel shows the DC 5V Type-C charging interface and a charging indicator light.

Setup

1. **Charging the Amplifier:** Connect the provided Type-C charging cable to the DC 5V port on the rear of the amplifier and to a USB power source (e.g., computer, wall adapter). The charging indicator light will show the charging status. It is not recommended to use the amplifier while it is charging.
2. **Connecting to a Source Device:** Use the included 3.5mm audio line to connect your source device (e.g., mobile phone, tablet, laptop, MP3 player, TV) to the 3.5mm AUX Input port on the front of the amplifier.
3. **Connecting Headphones or Speakers:** Plug your headphones or active speakers into the 3.5mm Output port on the front of the amplifier.

Image: Diagram illustrating the connection flow. A source device (phone, tablet, laptop, PC, DVD, MP3, TV) connects via audio input to the AIYIMA H1 amplifier, which then outputs to headphones or active speakers.

Image: A user's setup showing the AIYIMA H1 amplifier connected to a smartphone and a pair of white headphones, demonstrating a typical usage scenario for portable audio enhancement.

Image: The AIYIMA H1 amplifier connected to a smartphone and an active speaker, illustrating its versatility in driving both headphones and powered speakers.

Operating Instructions

1. **Power On/Off:** Rotate the red volume control knob clockwise to turn on the amplifier. The power indicator light will illuminate. Rotate the knob counter-clockwise until it clicks to turn off the amplifier.
2. **Adjusting Volume:** Once powered on, continue rotating the volume control knob clockwise to increase the volume and counter-clockwise to decrease it.
3. **Battery Life:** The built-in 800mAh lithium battery provides approximately 8 hours of working time at maximum volume, and up to 12 hours under normal listening conditions.

Image: A person wearing headphones, with the AIYIMA H1 amplifier visible, emphasizing the 3.5mm headphone output and extended listening time.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the amplifier's exterior. Avoid using liquid cleaners or solvents.
- **Battery Care:** To prolong battery life, avoid fully discharging the amplifier frequently. Charge the device regularly, even if not in use for extended periods. Store in a cool, dry place.
- **Storage:** When not in use, store the amplifier in a clean, dry environment away from extreme temperatures and direct sunlight.

Troubleshooting

- **No Sound:**
  - Ensure the amplifier is powered on (power indicator light is illuminated).
  - Check all audio cable connections between the source device, amplifier, and headphones/speakers.
  - Verify the volume level on both the amplifier and your source device.
  - Ensure your headphones or speakers are functioning correctly by testing them with another

device.

- **Distorted Sound:**
  - Reduce the volume on both the amplifier and the source device.
  - Ensure your headphones' impedance is within the supported range of 16-300Ω.
  - Check for damaged audio cables.
- **Charging Issues:**
  - Ensure the Type-C charging cable is securely connected to both the amplifier and the power source.
  - Try a different USB power source or charging cable.
  - Verify the charging indicator light is active.

Specifications

Operational Amplifier Chip	JRC5532*2 (Replaceable with OPA2604, OPA2314, LM4562, NE5532, etc.)
Signal to Noise Ratio (SNR)	≥111dB
Frequency Response	20-20KHz (±0.1dB)
Total Harmonic Distortion + Noise (THD+N)	0.0003%
Load Impedance	16-300Ω
Maximum Output Power	170mW/32Ω load
Input Mode	AUX (3.5mm)
Output Mode	Headphone, Active Speaker (3.5mm)
Working Voltage	2.8V-4.2V
Charging Voltage	DC5V (Type-C)
Battery Capacity	800mAh (Lithium Battery)
Maximum Volume Working Time	Up to 8 hours (Normal use up to 12 hours)
Dimensions (L*W*H)	110mm * 62mm * 17mm
Net Weight	123g

Image: Graphic depicting a high-capacity battery. The AIYIMA H1 amplifier is equipped with an 800mAh lithium battery for extended use.

Image: Close-up of the NE5532*2 Op Amp Chip. The AIYIMA H1 features replaceable operational amplifier chips, allowing for customization with compatible models such as OPA2604, OPA2314, LM4562, or other NE5532 variants.

Warranty and Support

For warranty information or technical support, please contact AIYIMA customer service through the retailer where you purchased the product or visit the official AIYIMA website. Please retain your proof of purchase for any warranty claims.

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