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### erjigo AM01

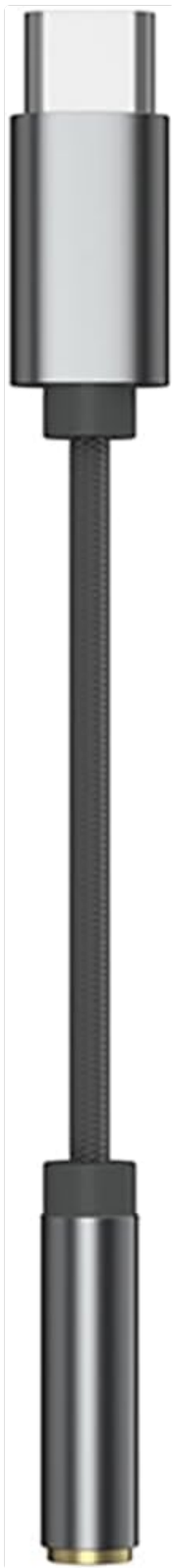
# erjigo KZ AM01 Portable DAC Decoding Amplifier User Manual

Model: AM01

## 1. INTRODUCTION

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The erjigo KZ AM01 is a portable Digital-to-Analog Converter (DAC) decoding amplifier designed to enhance the audio quality from your Type-C enabled devices. It converts digital audio signals into analog signals, providing a clearer and more powerful sound output for your headphones and earphones. This manual provides essential information for the proper setup, operation, and maintenance of your KZ AM01.



*Figure 1: erjigo KZ AM01 Portable DAC Decoding Amplifier*

## 2. PRODUCT FEATURES

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The KZ AM01 incorporates advanced audio technology to deliver high-fidelity sound:

- **Dual Independent Chips:** Features an independent DAC decoding chip and a professional Operational Amplifier (OP-AMP) IC for enhanced audio processing.
- **High-Performance DAC Decoding:** The integrated DAC chip utilizes modern manufacturing processes, resulting in low standby power consumption (10mW/h). It achieves a signal-to-noise ratio of up to 124dB and a dynamic range of 111dB for precise digital-to-analog

conversion.

- **Powerful Amplifier IC:** Equipped with a MAX97220 independent power amplifier IC that adaptively drives loads up to 600Ω, suitable for a wide range of headphones and earphones. This minimizes distortion and provides a robust audio output.
- **High-Resolution Audio Support:** Supports a PCM sampling rate of up to 32-bit/384kHz, allowing for playback of audio quality that surpasses standard CD audio.
- **Low Overall Power Consumption:** The device's maximum power consumption is within 575mW/h, contributing to minimal heat generation and reduced impact on the battery life of your connected device.



Figure 2: Key features of the KZ AM01 amplifier

## Dual independent chips, incomparable to single-chip portable amplifiers on the market and regular adapters!

Model	TYPE-C to 3.5MM	DAC decoding chip	Independent amplifier chip	Output power	Price
Ordinary adapter	✓	✗	✗	✗	~5USD
Mei*u-HA01	✓	✓	✗	30mW	~13USD
Jcally*-m6PRO	✓	✓	✓	60mW	~15USD
KZ-AM01	✓	✓	✓	60mW	~13USD

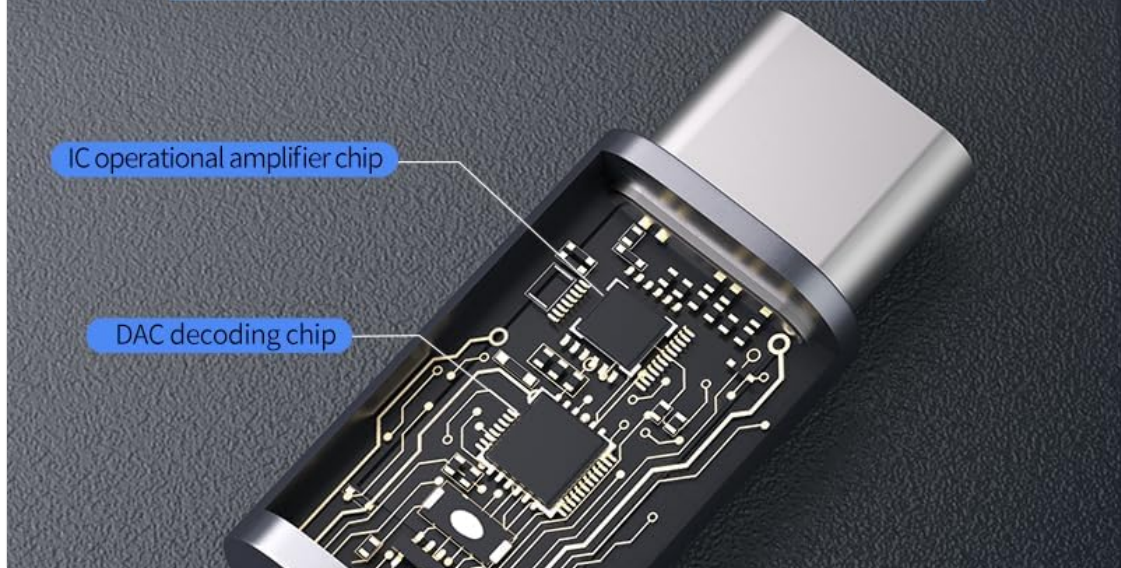


Figure 3: Internal architecture highlighting dual independent chips

## Independent DAC decoding chip

The high-performance DAC decoding chip built into the AM01 uses the latest manufacturing process, with standby power consumption as low as 10mW/h. (While most decoding chips on the market have an outdated manufacturing process, and even with no load, they have a high power consumption of 40-50mW/h.) This chip provides AM01 with an impressive signal-to-noise ratio of up to 124dB and a dynamic range of 111dB, ensuring a precise one-to-one conversion of digital signals into pure lossless audio quality.



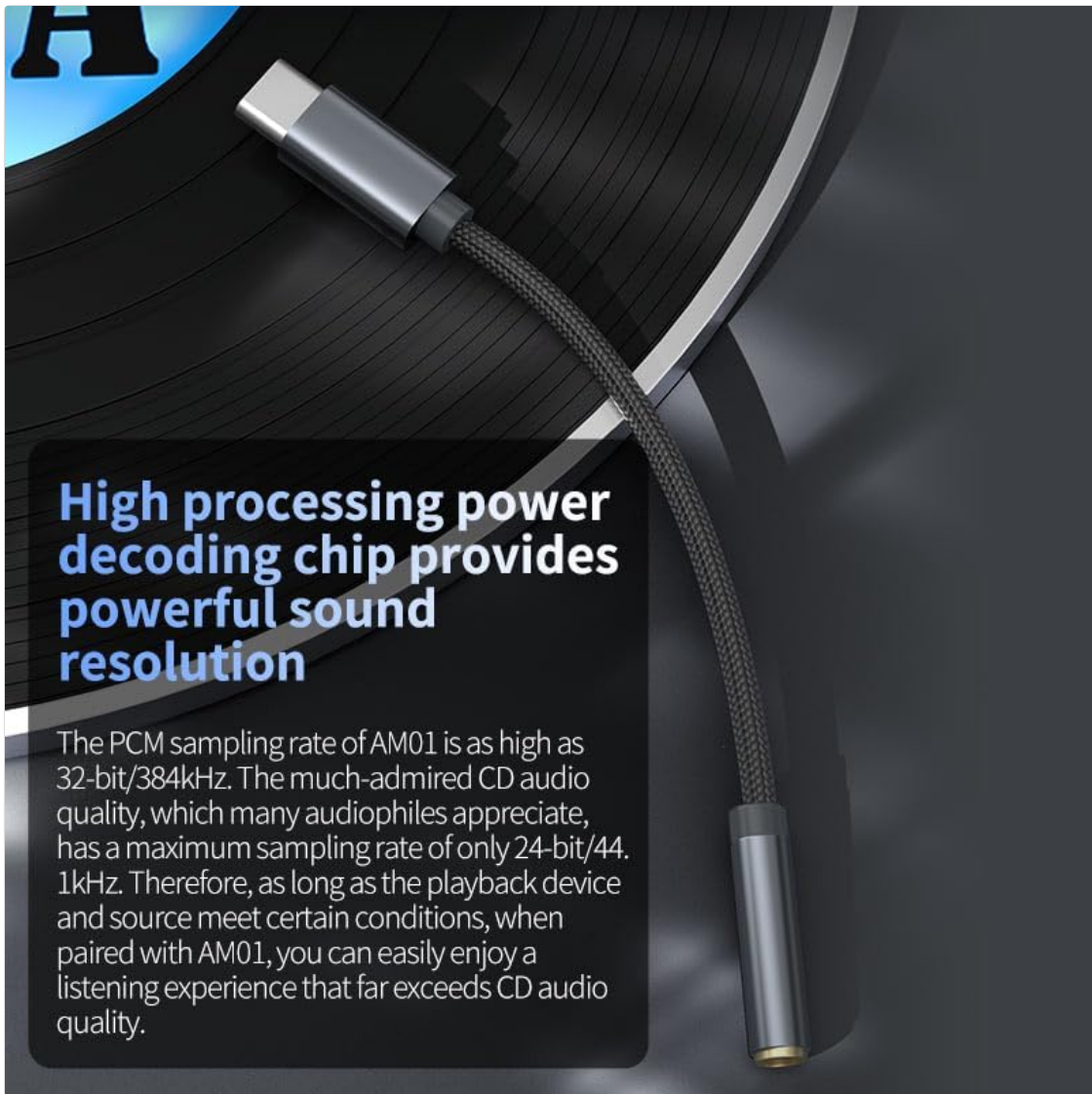
*Figure 4: Independent DAC decoding chip*

## Empower your smartphone with a high driving force comparable to that of professional audio players.

AM01 features the MAX97220 independent amplifier chip, which dynamically adapts to loads within  $600\Omega$  (sufficient for driving most earphones on the market). This ensures a cleaner and more powerful audio output while minimizing distortion.



*Figure 5: Amplifier connected to a smartphone, demonstrating high impedance load capability*



*Figure 6: High-resolution audio support*

## Powerful performance with extremely low power consumption

The overall maximum power consumption of AM01 is within 575mW/h, resulting in very low heat generation and minimal impact on the battery life of your playback device.



Figure 7: Low power consumption feature

### 3. SETUP INSTRUCTIONS

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Follow these steps to set up your erjigo KZ AM01:

1. **Identify Components:** Ensure you have the KZ AM01 amplifier cable.
2. **Connect to Source Device:** Plug the USB Type-C end of the KZ AM01 into the Type-C port of your smartphone, tablet, or computer. Ensure your device's Type-C port supports OTG (On-The-Go) functionality for audio output.
3. **Connect Headphones:** Plug your 3.5mm headphones or earphones into the 3.5mm female jack of the KZ AM01.
4. **Verify Connection:** Once connected, your device should automatically recognize the KZ AM01 as an external audio output device.



*Figure 8: KZ AM01 connected and ready for use*

## 4. OPERATING INSTRUCTIONS

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The KZ AM01 is designed for simple plug-and-play operation:

- **Automatic Recognition:** After connecting, your device should automatically switch audio output to the KZ AM01.
- **Volume Control:** Adjust the audio volume directly from your connected source device (smartphone, tablet, or computer).
- **Compatibility:** The amplifier is compatible with any device featuring an adaptive Type-C interface that supports OTG functionality.

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your KZ AM01, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the device. Avoid using liquid cleaners or abrasive materials.
- **Storage:** Store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.

- **Handling:** Avoid bending or twisting the cable excessively, especially near the connectors, to prevent internal damage. Do not pull on the cable to disconnect it; always grasp the connector housing.
- **Moisture:** Keep the device away from water and high humidity.

## 6. TROUBLESHOOTING

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If you encounter issues with your KZ AM01, refer to the following common troubleshooting steps:

- **No Sound Output:**
  - Ensure the KZ AM01 is fully plugged into both your source device and headphones.
  - Check the volume level on your source device.
  - Verify that your source device's Type-C port supports OTG audio output. Some devices may require enabling OTG in settings.
  - Test with different headphones or a different source device to isolate the problem.
- **Device Not Recognized:**
  - Disconnect and reconnect the KZ AM01.
  - Restart your source device.
  - Ensure your device's operating system is up to date.
- **Poor Audio Quality (Static, Distortion):**
  - Ensure all connections are secure.
  - Test with different audio files or streaming services to rule out source material issues.
  - Reduce the volume on your source device if distortion occurs at high levels.
  - Ensure your headphones are functioning correctly.

## 7. SPECIFICATIONS

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Specification	Detail
Model Number	AM01
Brand	erjigo
Connector Type	USB Type-C (Input), 3.5mm Auxiliary (Output)
Compatible Devices	Smartphones, Tablets, Desktops, Headphones (with Type-C OTG support)
Item Weight	0.352 ounces (0.01 Kilograms)
Package Dimensions	5.12 x 1.54 x 0.47 inches
Manufacturer	Shenzhen Yuanze Electronic Co.,Ltd.

## 8. WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for any warranty claims.