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› SHANLING UA2 Plus Portable Headphone Amplifier User Manual

## SHANLING UA2 Plus

# SHANLING UA2 Plus Portable Headphone Amplifier User Manual

Model: UA2 Plus

Brand: SHANLING

## 1. INTRODUCTION

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The SHANLING UA2 Plus is a compact and powerful portable USB DAC/AMP designed to enhance your audio experience across various devices. Featuring an ES9038Q2M DAC chip and dual RT6863 amplifier chips, it supports high-resolution audio up to 32bit/768kHz and DSD512. With both 3.5mm single-ended and 4.4mm balanced outputs, it offers versatile connectivity for a wide range of headphones. Its small size and robust build make it an ideal companion for on-the-go high-fidelity sound.

## 2. PACKAGE CONTENTS

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Please check the box for the following items:

- 1x SHANLING UA2 Plus Portable DAC/AMP
- 1x USB Type-C to C Data Cable
- 1x USB A to Type-C Adapter
- 1x Quick Start Guide
- 1x Warranty card

\* iOS users need to purchase Lightning Cable separately



Image: Contents of the SHANLING UA2 Plus retail box, showing the device, cables, and manuals.

Video: An unboxing video of the SHANLING UA2 Plus USB DAC/AMP, demonstrating the contents of the package.

### 3. PRODUCT OVERVIEW

#### Key Features:

- **DAC Chip:** ES9038Q2M for high-fidelity audio conversion.
- **Amplifier:** Dual RT6863 Amp chips for powerful and clean output.
- **High-Resolution Audio:** Supports up to 32bit/768kHz and DSD512.
- **Outputs:** 3.5mm Single-Ended and 4.4mm Balanced headphone jacks.
- **Output Power:** Up to 195mW@32Ω (Balanced) and 125mW@32Ω (Single-Ended).
- **Compatibility:** Android, iOS, Windows, Mac, Nintendo Switch.
- **Portability:** Compact size (1.97x0.7x0.25 inches) and lightweight (10.6g).
- **App Control:** Customizable settings via the Eddict Player app.
- **Power Efficiency:** Optimized power consumption for extended battery life on connected devices.
- **LED Indicator:** Displays current sampling rate and MQA status.

#### Components and Controls:

The UA2 Plus features a minimalist design with essential controls and indicators.

- **USB-C Port:** For data connection and power.
- **Mode Button:** Used for various settings and UAC1.0 mode for Nintendo Switch.
- **3.5mm Single-Ended Output:** Standard headphone jack.
- **4.4mm Balanced Output:** For balanced headphones, offering higher power and improved sound quality.
- **LED Indicator:** Located near the USB-C port, changes color to indicate sampling rate and MQA status.



Image: An overview of the SHANLING UA2 Plus highlighting its internal components and output capabilities.

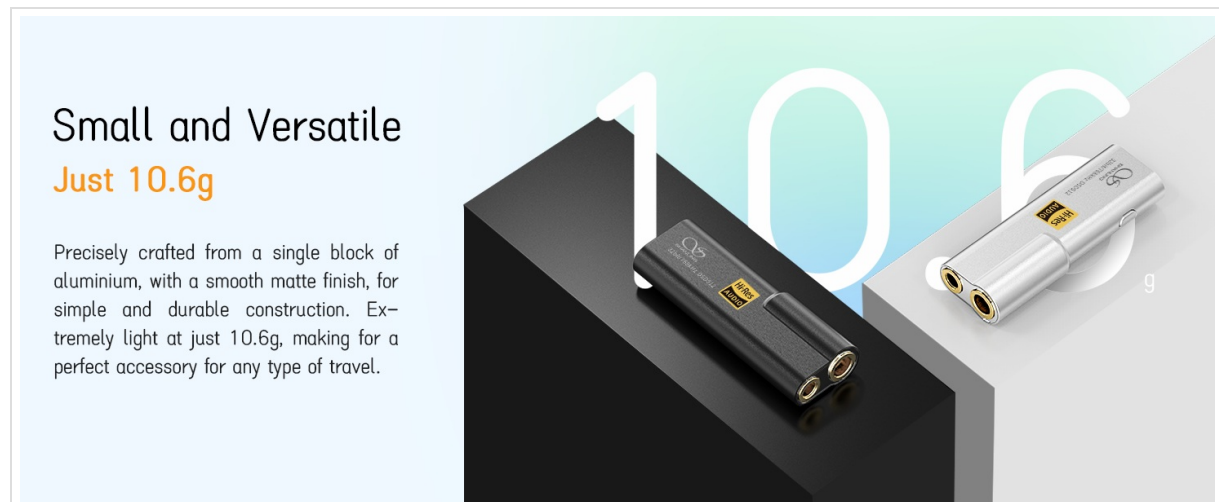


Image: The LED indicator on the UA2 Plus, explaining the color codes for various sampling rates (Blue: 44.1/48 kHz, Green: 88.2/96 kHz, Yellow: 176.4/192 kHz, Purple: 352/384/705/768 kHz, White: DSD, Red: UAC1.0 mode).

## 4. SETUP

### 4.1 Connecting to Devices

The UA2 Plus is designed for plug-and-play operation with most compatible devices.

- **Android Devices:** Connect the UA2 Plus to your Android phone using the provided USB Type-C to C cable. Ensure your phone supports USB OTG audio output.
- **iOS Devices:** A special Lightning to USB-C cable (e.g., Shanling L3 cable) is required for iOS compatibility. Standard OTG cables are not compatible.
- **Windows/Mac Computers:** Use the provided USB Type-C to C cable and the USB A to Type-C adapter (if needed) to connect to your computer. Drivers may be required for Windows for optimal performance (download from SHANLING official website).

- **Nintendo Switch:** Connect the UA2 Plus and press down the Mode switch while connecting to enable UAC1.0 mode for compatibility.

## USB Connection Zero delay

Thanks to the USB connection, UA2 Plus can work with any smartphone and all its apps without any additional delay. Simply enjoy movies without any audio sync issues and keep your game at the top level with immediate reactions.

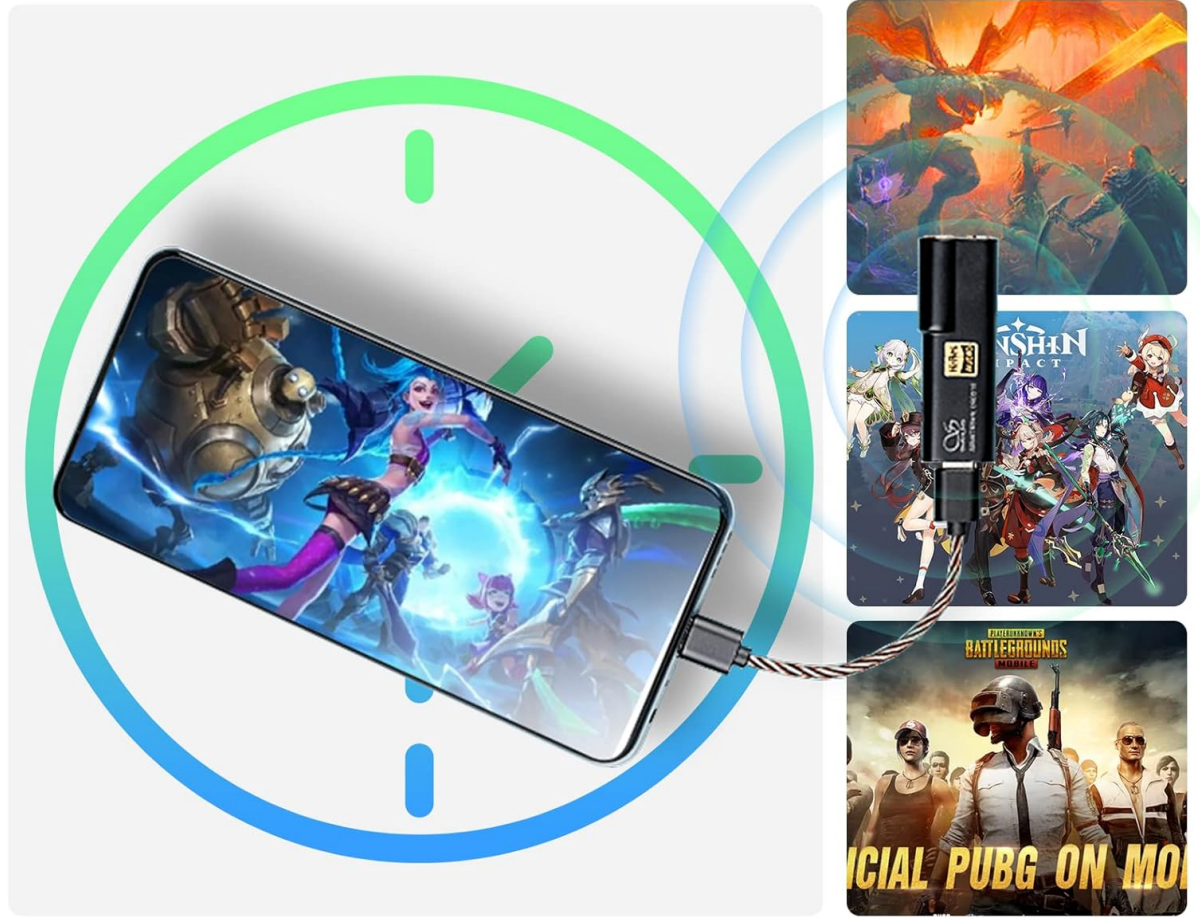


Image: The SHANLING UA2 Plus connected to a Nintendo Switch, illustrating its use for gaming.

### 4.2 App Control (Eddict Player)

The Eddict Player app allows for advanced control and customization of your UA2 Plus settings. Download the app from your device's official app store (Google Play Store for Android, App Store for iOS).

- **Connect:** Ensure your UA2 Plus is connected to your device.
- **Open App:** Launch the Eddict Player app.
- **Access USB Control:** Navigate to the USB Control section within the app.
- **Select UA2 Plus:** Choose your UA2 Plus from the list of connected devices.
- **Customize:** Adjust settings such as digital filters, gain, volume, and more.

## Companion App for Android

\* APP personalization settings are not applicable to IOS devices other functions are applicable to both IOS and Android devices.

Download our Eddict Player app to get full control over the UA2 Plus. Allowing access to 6 digital filters, gain setting, volume control and others.

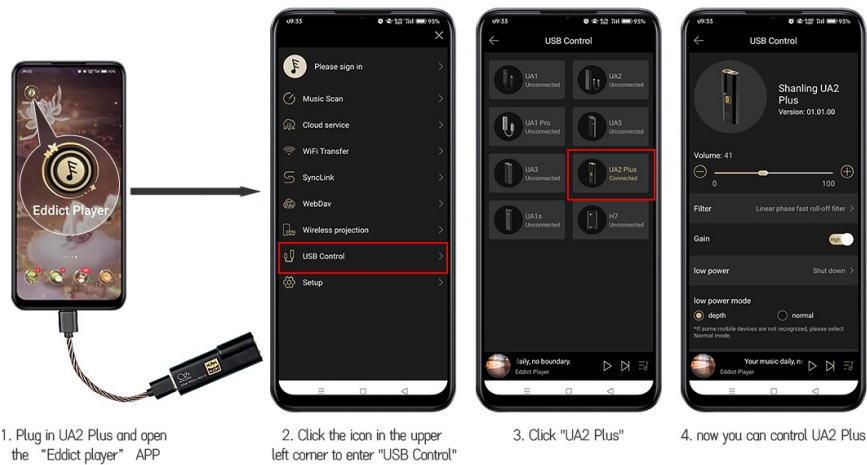


Image: A visual guide to using the Eddict Player app for controlling the UA2 Plus, showing the connection and settings interface.

Video: A tutorial demonstrating the SyncLink connection method for Android and iOS devices using the Eddict Player app, which is applicable to the UA2 Plus for app control.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Operation

The UA2 Plus is designed for simple operation. Once connected to a compatible device, it will typically power on automatically.

- **Volume Control:** Volume is primarily controlled via the connected source device (phone, computer). The UA2 Plus acts as a high-quality audio output.
- **Mode Button:** A short press of the 'MODE' button cycles through available digital filters. A long press (while connecting to Nintendo Switch) activates UAC1.0 mode.

### 5.2 LED Indicators

The LED indicator on the UA2 Plus provides visual feedback on the device's status:

- **Blue:** 44.1 / 48 kHz sampling rate.
- **Green:** 88.2 / 96 kHz sampling rate.
- **Yellow:** 176.4 / 192 kHz sampling rate.
- **Purple:** 352 / 384 / 705 / 768 kHz sampling rate.
- **White:** DSD 64 / 128 / 256 / 512 playback.
- **Red:** 44.1 / 48 kHz (Switch Mode / UAC1.0).

## Switch Mode

### Hi-Fi for Gamers

UA2 Plus was developed with a special mode, that allows it to work with portable gaming consoles. Enjoy your games with better sound quality and more power for your headphones.

\* Press down on the Mode switch while connecting UA2 Plus to the gaming console.



Image: The LED indicator on the UA2 Plus, detailing the color codes for various audio formats and modes.

## 6. MAINTENANCE

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To ensure the longevity and optimal performance of your SHANLING UA2 Plus, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Protection:** Avoid dropping the device or exposing it to excessive force, which could damage internal components or the glass panels.
- **Moisture:** Keep the device away from water and high humidity.

## 7. TROUBLESHOOTING

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If you encounter any issues with your UA2 Plus, please refer to the following common troubleshooting steps:

- **No Sound:**
  - Ensure the UA2 Plus is securely connected to both the source device and headphones.
  - Check the volume level on both the source device and within the Eddict Player app.
  - Verify that the correct audio output is selected on your source device (e.g., 'SHANLING UA2 Plus' in sound settings).
  - For iOS devices, confirm you are using a compatible Lightning to USB-C cable.
- **Device Not Recognized:**
  - Try reconnecting the device.
  - Restart your source device.
  - For Windows computers, ensure the necessary drivers are installed.
  - For Nintendo Switch, ensure UAC1.0 mode is activated by pressing the Mode button during connection.
- **Intermittent Connection:**
  - Check the USB cable for damage and ensure it is firmly seated.
  - Try a different USB port or cable.
- **Poor Sound Quality:**
  - Ensure you are using high-quality audio files.
  - Check headphone connections and ensure they are fully inserted.
  - Adjust digital filter and gain settings in the Eddict Player app.

## 8. SPECIFICATIONS

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| Feature                  | Description                                 |
|--------------------------|---|
| Model Name               | UA2 Plus                                    |
| DAC Chip                 | ES9038Q2M                                   |
| Amp Chip                 | Dual RT6863                                 |
| Hi-Res Support           | 32bit/768kHz, DSD512                        |
| Output Power (4.4mm BAL) | 195mW@32Ω                                   |
| Output Power (3.5mm SE)  | 125mW@32Ω                                   |
| Signal-to-Noise Ratio    | Up to 121dB                                 |
| Headphones Jack          | 3.5 mm Jack, 4.4 mm Balanced Jack           |
| Connectivity Technology  | Wired (USB-C)                               |
| Compatible Devices       | Android, iOS, Windows, Mac, Nintendo Switch |
| Item Weight              | 10.6g (0.37 oz)                             |
| Material                 | Metal                                       |

## 9. WARRANTY AND SUPPORT

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Your SHANLING UA2 Plus comes with a warranty card included in the package. Please refer to the warranty card for specific terms and conditions.

For further support, product updates, or to explore other SHANLING products, please visit the official SHANLING website or their Amazon store:

- SHANLING Official Amazon Store