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SHANLING EC Zero Portable CD Player Instruction Manual

Model: EC Zero

1. PRODUCT OVERVIEW

The SHANLING EC Zero is a high-fidelity portable CD player designed for audiophiles. It features a professional CD mechanism, a high-resolution AK4493S DAC, and dual SGM8262-2 op-amps for clear and powerful audio output. The device supports various audio connections, including 3.5mm and 4.4mm headphone outputs, line-out, coaxial, optical, and Bluetooth 5.3. It also includes a built-in CD ripping function and a long-lasting 5500mAh battery with external power support.



Image 1.1: Top-down view of the SHANLING EC Zero Portable CD Player, showcasing its sleek design and visible CD mechanism.

2. SETUP

2.1 Unpacking

Carefully remove all components from the packaging. Ensure the following items are present:

- SHANLING EC Zero Portable CD Player
- USB-C cable (for charging/power/USB DAC)
- 1 AAA battery (included, typically for remote control or minor functions)
- Instruction Manual (this document)

2.2 Powering On

The EC Zero can be powered by its internal 5500mAh battery or an external DC power source via the USB-C port. For optimal performance and extended listening sessions, connect the device to an external DC power source. Locate the power mode switch (BAT/EXT DC) on the rear panel and set it to the desired power source.

Built-in Battery On-the-Go External Power at Home

5500 mAh
Battery Capacity

20 Hours
Bluetooth Transmitter

8 Hours
3.5mm Output

7.5 Hours
4.4mm Output

The Shanling Ec Zero portable CD player supports external power input, unlocking boosted amplification for a powerful, immersive audio experience.



Image 2.1: The SHANLING EC Zero supports both internal 5500mAh battery power and external DC power input via USB-C for flexible usage.

2.3 Loading a CD

To load a CD, gently open the transparent top cover. Place the CD onto the central spindle, ensuring it is seated correctly and flat. The device features an active magnetic disc stabilization system to hold the CD securely during playback. Close the cover firmly until it clicks into place.



Image 2.2: A user carefully placing a CD into the SHANLING EC Zero player, demonstrating the top-loading mechanism.

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Video 2.1: This video demonstrates the process of loading a CD into the SHANLING EC Zero and initiating playback. It highlights the magnetic disc stabilization feature.

3. OPERATING INSTRUCTIONS

3.1 Basic Playback

After loading a CD and powering on the device, use the control buttons located on the top panel for playback functions:

- **Play/Pause:** Press to start or pause playback.
- **Stop:** Press to stop playback.
- **Previous Track:** Press to go to the beginning of the current track or the previous track.
- **Next Track:** Press to skip to the next track.

3.2 Volume Control

Adjust the audio output level using the sliding volume potentiometer located on the side of the device. For precise control, move the slider slowly to achieve the desired volume.



Image 3.1: The sliding volume potentiometer on the front side of the EC Zero for audio level adjustment.

3.3 Connectivity Options

The SHANLING EC Zero offers versatile audio connectivity through its various ports:

- **Headphone Outputs:** Connect headphones to the 3.5mm or 4.4mm balanced headphone jacks. The device provides up to 836mW output (@32Ω balanced) to drive high-impedance headphones.
- **Line-Out:** Use the 3.5mm or 4.4mm balanced line-out ports to connect to external amplifiers or active speakers.
- **Digital Output:** The 3.5mm SPDIF coaxial/optical output allows connection to external DACs or digital audio receivers.
- **USB DAC:** Connect the EC Zero to a computer via USB-C to use it as an external DAC, supporting PCM up to 768kHz and DSD512.
- **Bluetooth 5.3:** Pair with Bluetooth headphones or speakers for wireless audio transmission.

Supports aptX Adaptive, aptX, and SBC codecs.

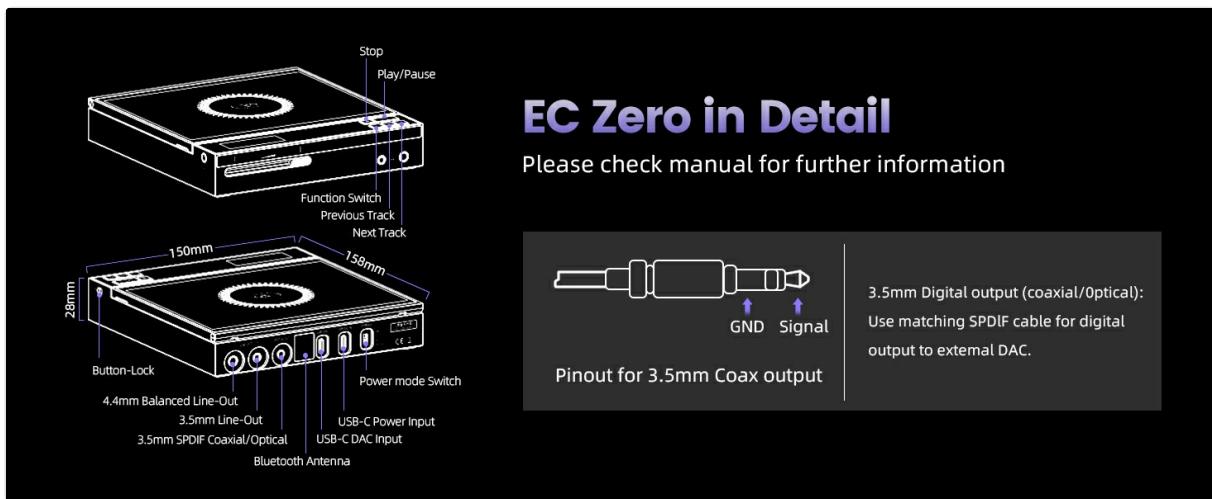


Image 3.2: Detailed view of the EC Zero's connectivity ports, including headphone jacks, line-out, digital output, and USB-C inputs.

3.4 CD Ripping Function

The EC Zero can rip audio tracks from CDs to WAV format. Connect a FAT32 compatible USB drive to the device's USB-C DAC Input port to store ripped tracks. Follow the on-screen prompts on the device's display to initiate the ripping process.

3.5 Side Button Lock

Utilize the side button lock switch to prevent accidental touches or changes to settings during portable use or when the device is stored.

4. MAINTENANCE

4.1 Cleaning

Wipe the exterior of the device with a soft, dry, lint-free cloth. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the finish. For the CD tray and lens, use specialized CD cleaning kits if necessary, following their instructions carefully to avoid damaging sensitive components.

4.2 Battery Care

To prolong the lifespan of the internal 5500mAh battery, avoid fully discharging it frequently. If storing the device for an extended period, charge it to approximately 50% and store it in a cool, dry place. All rechargeable batteries are consumables and will experience gradual degradation over time.

4.3 CD Handling

Always handle CDs by their edges to prevent fingerprints, dust, and scratches on the playing surface. Ensure CDs are clean and free of debris before inserting them into the player to maintain optimal playback quality and prevent potential damage to the laser lens and mechanism.

5. TROUBLESHOOTING

If you encounter issues with your SHANLING EC Zero, refer to the following common problems and solutions:

- **No Power:**

- Ensure the device's internal battery is charged or it is connected to a working external DC power source.
- Check that the power mode switch (BAT/EXT DC) is set correctly.
- Verify the USB-C cable and power adapter are functioning correctly.

- **Disc Not Playing/Skipping:**

- Ensure the CD is clean and free of scratches or smudges.
- Verify the CD is loaded correctly and securely on the spindle.
- Try a different CD to rule out disc-specific issues.

- **No Sound Output:**

- Check headphone or speaker connections are secure.
- Ensure the volume is not set to minimum or muted.
- Verify the correct output mode is selected (e.g., headphone, line-out, Bluetooth).
- If using Bluetooth, ensure the device is properly paired and connected to your audio receiver.

- **Bluetooth Connection Issues:**

- Ensure the EC Zero is in Bluetooth pairing mode.
- Check that the receiving Bluetooth device is discoverable and within range.
- Try unpairing and re-pairing the devices.

- **CD Ripping Failure:**

- Ensure the connected USB drive is formatted to FAT32.
- Check for sufficient storage space on the USB drive.
- Try a different USB drive.

If the problem persists after attempting these solutions, please contact SHANLING customer support for further assistance.

6. SPECIFICATIONS

The following are the technical specifications for the SHANLING EC Zero Portable CD Player:

Feature	Specification
Model Name	EC Zero
Dimensions	158 x 150 x 28mm (6.22 x 5.91 x 1.1 inches)
Item Weight	575g (1.28 pounds)
DAC	AKM AK4493S
Op-Amps	Dual SGM8262-2
Battery Capacity	5500mAh (Internal)
External Power Input	USB-C 5V / 2A

Connectivity Technology	Bluetooth, USB
Bluetooth Version	V5.3
Bluetooth Transmitter Codecs	aptX Adaptive, aptX, SBC
USB DAC Support	PCM 768kHz/32bit & DSD512
CD Ripping	1x speed, to FAT32 USB Drive, WAV format
Digital Output	3.5mm Combined Coaxial / Optical SPDIF
3.5mm Headphone Output Power	Low Gain: 52mW@32Ω, High Gain: 122mW@32Ω, High Gain (External Power): 213mW@32Ω
4.4mm Headphone Output Power	Low Gain: 211mW@32Ω, High Gain: 525mW@32Ω, High Gain (External Power): 836mW@32Ω
CD Play Frequency Response	20Hz-20kHz (-0.5dB)
USB DAC Frequency Response	20Hz-40kHz (-0.5dB)
Signal-to-noise ratio (CD Play)	117dB
THD+N (CD Play)	0.0004%
Dynamic Range (CD Play)	117dB
Channel Separation (CD Play)	79dB

Dimensions: 158 X 150 X 28mm Weight: 575g Screen: 1.68-inch LCD display USB DAC Support: 768kHz/32bit & DSD512 DAC: AKM AK44935 External Power Input: USB-C 5V / 2A CD Ripping: 1x speed, to FAT32 USB Drive, WAV format Digital output: 3.5mm Combined Coaxial / Optical SPDIF	THD+N: 0.0004% Dynamic Range: 117dB Channel Separation: 79dB Signal-to-noise ratio: 117dB Noise: 111dB (low gain) USB DAC Frequency Response: 20Hz-40kHz (-0.5dB) CD PLAY Frequency Response: 20Hz-20kHz (-0.5dB) Output Impedance: 0.6 Ω	Signal-to-noise ratio: 119dB Noise: 107dB (low gain) USB DAC Frequency Response: 20Hz-40kHz (-0.5dB) CD PLAY Frequency Response: 20Hz-20kHz (-0.5dB) Output Impedance: 0.8 Ω
Bluetooth version: V5.3 Bluetooth Transmitter Codecs: aptX Adaptive, aptX, SBC	4.4mm Headphone Output. Output Power: Low Gain: 211mW@32Ω High Gain: 525mW@32Ω High Gain: 836mW@32Ω (External Power)	3.5mm Line-Out Output Voltage: 2.05Vrms Frequency Response: 20Hz-40kHz (-0.5dB) THD+N: 0.0005% Signal-to-noise ratio: 117dB

Image 6.1: Comprehensive technical specifications of the SHANLING EC Zero, detailing audio performance and connectivity.

7. WARRANTY AND SUPPORT

For detailed warranty information regarding your SHANLING EC Zero Portable CD Player, please refer to the warranty card included in your product packaging. Alternatively, you may visit the official SHANLING website for the most up-to-date warranty terms and conditions.

For technical support, troubleshooting assistance beyond the scope of this manual, or any service-related inquiries, please contact SHANLING customer service directly. Their support team can provide specialized guidance and solutions.

You can typically find contact information on the official SHANLING website:www.shanling.com