

everesolo

DAC — Z10

High Resolution DAC & Headphone Amplifier

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Introduction

Thank you for choosing Eversolo DAC-Z10.

The Eversolo DAC-Z10 combines a high-performance DAC, a fully balanced preamplifier, and a refined headphone amplifier, featuring a precisely engineered chassis with versatile connectivity.

The DAC-Z10 features a professional audio processing architecture with two sets of flagship AKM DAC modules — AK4191 + AK4499 — assigned to the left and right channels. It supports decoding formats up to DSD512 and PCM 768kHz/32Bit, delivering D/A conversion with ultra-low noise and distortion for exceptional audio fidelity.

Its fully balanced preamp employs a differential R-2R circuit design combined with high-precision resistor arrays, enabling lossless volume control for XLR, RCA, and headphone outputs. This design guarantees ultra-low noise and faithful signal reproduction.

The DAC-Z10 offers a wide range of digital input options for high-resolution audio decoding. USB DAC and IIS inputs can be paired with streamers such as the Eversolo T8, supporting up to PCM 768kHz/32Bit and DSD512 decoding; Dual optical, dual coaxial, and AES/EBU inputs are available for connection with streaming transports or CD players; The ARC input allows integration with your TV into a Hi-Fi system; In addition, Bluetooth 5.0 enables wireless connection with mobile devices, turning the DAC-Z10 into an advanced Bluetooth decoder.

Internally, the DAC-Z10 features a professional headphone driver circuit with remarkable audio performance and powerful output capability. It supports three gain levels and automatic impedance detection, allowing effortless driving of a wide range of Hi-Fi headphones from 16 to 300 ohms.

In summary, the Eversolo DAC-Z10 combines exceptional decoding performance, refined sound quality, and robust headphone driving power, making it a perfect companion for your high-fidelity audio system or premium headphones.

To fully enjoy all features, please read this manual before use.

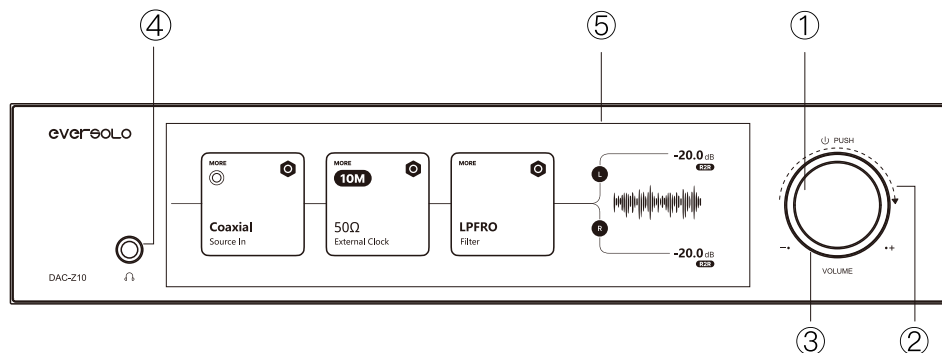
Specifications

Model	Eversolo DAC-Z10
Display	8.8" IPS
Chassis Material	Aluminium alloy
Main Processor	DCP8568
DAC	Dual AK4191+AK4499
Audio Processor	Multi-core USB audio processor
OPA Chip	OPA1612
Power	Triple ultra-low noise linear power supplies
Bluetooth Audio Input	Qualcomm QCC5125 Bluetooth module, Bluetooth version: BT5.0 Supports SBC/AAC Bluetooth protocols
USB-B Audio Input	Compatible with Windows 10 and above, macOS, Android, and iOS; Supports up to Stereo DSD512 / PCM 768kHz 32Bit
IIS Input	Supports 8 mode configurations, up to Stereo DSD512 / PCM 768kHz 32Bit
AES/EBU Input	Up to Stereo PCM 192kHz 24Bit / DSD64 DoP
Optical Audio Inputs *2	Up to Stereo PCM 192kHz 24Bit / DSD64 DoP
Coaxial Audio Inputs *2	Up to Stereo PCM 192kHz 24Bit / DSD64 DoP
ARC Input	Up to Stereo PCM 192kHz 24Bit
Analog Audio Inputs	XLR (Balanced), RCA
Analog Audio Outputs	Pre-out: XLR (Balanced), RCA;Headphone out: 6.35mm single-ended.
External Clock Input	Supports 10M/25M clock inputs with 50Ω or 75Ω impedance
USB Port	USB2.0*1 (only for firmware upgrade)
Control Methods	Touchscreen control, remote control, mobile App control, knob control
Recommended Headphone Impedance	16–300 Ω (Low Gain: 16–32 Ω / High Gain: 32–300 Ω)

XLR Output Audio Characteristics	Output Level (Vrms): 5 Vrms @ 0 dBFS THD+N @ No-wt: 0.00008% @ 1 kHz (–122 dB @ 1 kHz) Noise @ No-wt: < 1.2 μVrms SNR @ A-wt: 130 dB Frequency Response: 20 Hz – 20 kHz (±0.1 dB) Crosstalk: –130 dB DNR @ A-wt: 130 dB
RCA Output Audio Characteristics	Output Level (Vrms): 2.5 Vrms @ 0 dBFS THD+N @ No-wt: 0.000097% @ 1 kHz (–120 dB @ 1 kHz) Noise @ No-wt: < 1.5 μVrms SNR @ A-wt: 128 dB Frequency Response: 20 Hz – 20 kHz (±0.1 dB) Crosstalk: –123 dB DNR @ A-wt: 128 dB
Headphone Audio Characteristics (Low Gain Mode)	Output Level (Vrms): 4Vrms @ 0dBFS THD+N @ No-wt: 0.0003% @ 1kHz (–110dB @ 1kHz) Noise @ No-wt: < 2.5uVrms SNR @ A-wt: 124dB Frequency Response: 20Hz–20kHz (±0.1dB) DNR @ A-wt: 124dB
Headphone Audio Characteristics (Mid Gain Mode)	Output Level (Vrms): 5.6 Vrms @ 0dBFS THD+N @ No-wt: 0.00018% @ 1kHz (–115 dB @ 1kHz) Noise @ No-wt: <2.5 μVrms SNR @ A-wt: 126 dB Frequency Response: 20Hz–20kHz (±0.1 dB) DNR @ A-wt: 126 dB
Headphone Audio Characteristics (High Gain Mode)	Output Level (Vrms): 7 Vrms @ 0dBFS THD+N @ No-wt: 0.00013% @ 1kHz (–118 dB @ 1kHz) Noise @ No-wt: <2.5 μVrms SNR @ A-wt: 127 dB Frequency Response: 20Hz–20kHz (±0.1 dB) DNR @ A-wt: 127 dB
Power Supply	AC 110~120V /220~240V 50/60Hz Max 0.35A
Rated Power Consumption	32W
Dimensions	365 mm (L) × 310 mm (W) × 78 mm (H)
Packing List	Remote control ×1, power cable ×1, USB data cable ×1, USB drive (for FW upgrade) ×1, TRIGGER cable ×1, polishing cloth ×1, user manual ×1

Front Panel & Control

Front Panel Function



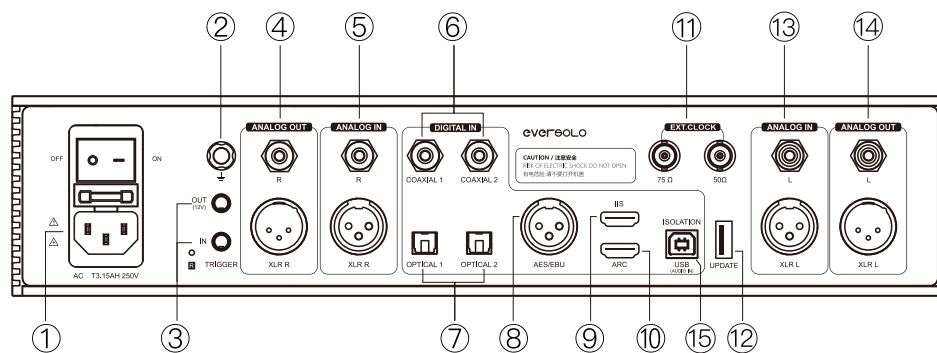
- 1.Power On/Off 2.Volume Adjustment 3.Knob Light Color
4.Headphone Jack 5.Display

Basic Function Description

- 1.Power On/Off:** Press the volume knob to turn the device on or off
- 2.Volume Adjustment:** When the screen is in playback mode, rotate the knob to adjust the device volume. Turn clockwise to increase output volume, and counterclockwise to decrease it.
- 3.Knob Light Color:** Adjust the brightness and color of the knob ring via Settings >Display.
- 4.Headphone Jack:** Supports 6.35mm headphone plugs, Supports automatic impedance detection and gain matching.

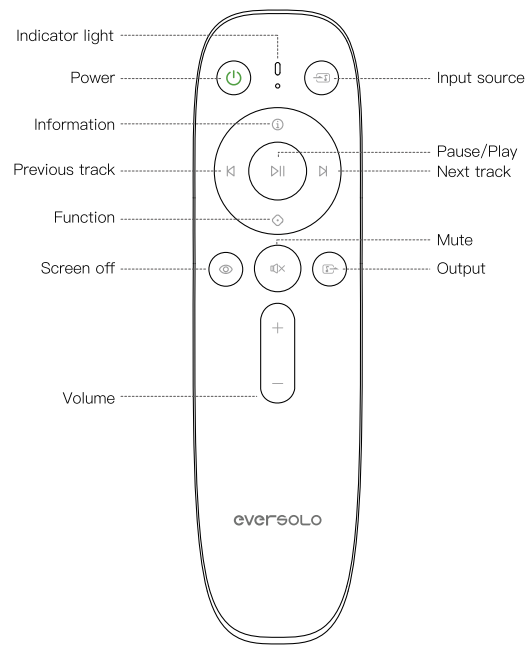
★ The volume step can be customized in DAC settings, ranging from 0.5 dB to 3 dB per step.

Rear Panel



1. AC Power Switch & Socket
2. Grounding Post
3. Trigger Control: Input & Output
4. Analog Output — Right Channel
5. Analog Input — Right Channel
6. Coaxial Inputs x2
7. Optical Inputs x2
8. AES/EBU Input
9. IIS Input
10. ARC Input
11. External Clock Input
12. USB Upgrade Port
13. Analog Input — Left Channel
14. Analog Output — Left Channel
15. USB Audio

Remote Control



Remote Control Button Layout

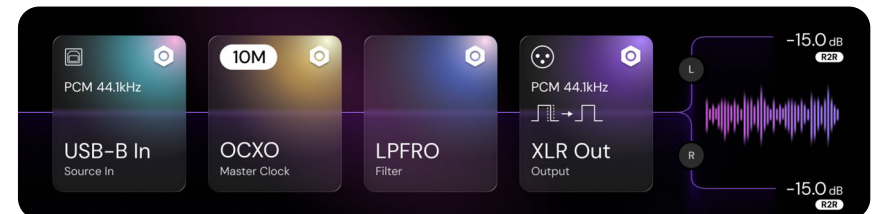
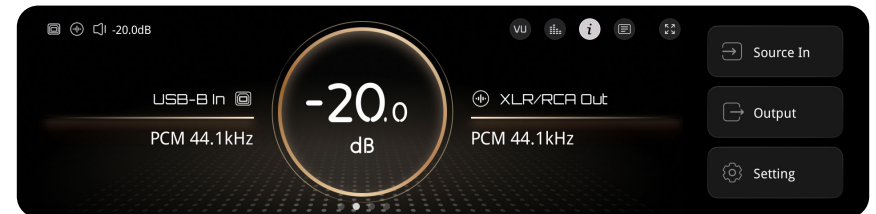
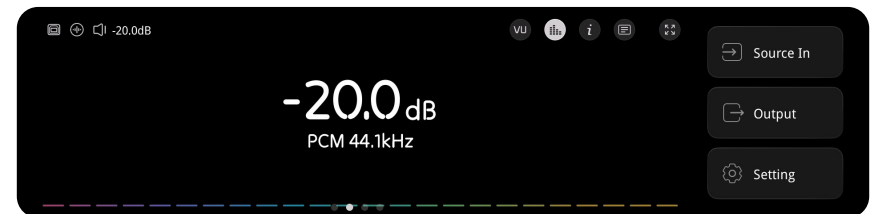
Mobile App Control

The Eversolo DAC-Z10 can be controlled via the mobile app. Please download and install the Eversolo mobile control app from the official website or the resource download page of this manual. The app connects to the device via Bluetooth. After installing the app, turn on your phone's Bluetooth, open the app, and search for this DAC to connect.

★ **Note:** The mobile app does not support power on/off operations.

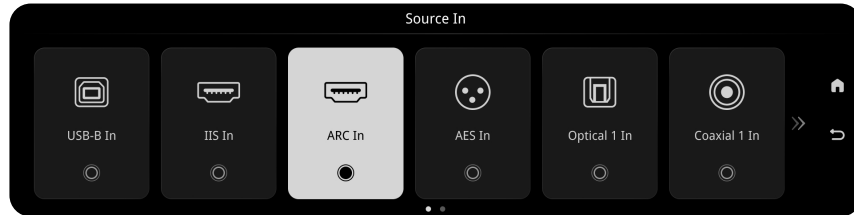
Basic Settings

Homepage



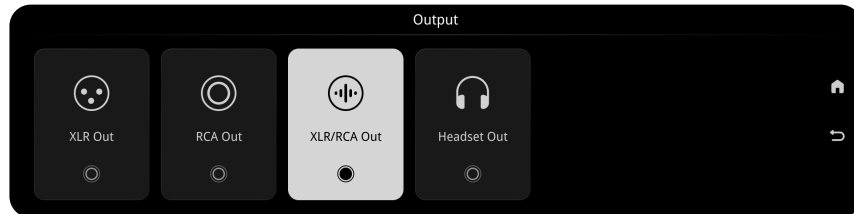
1. Source Selection

Press and hold the volume knob, then rotate the knob to switch input sources, or directly press the “Source” button on the remote control to switch.



2. Output Port Selection

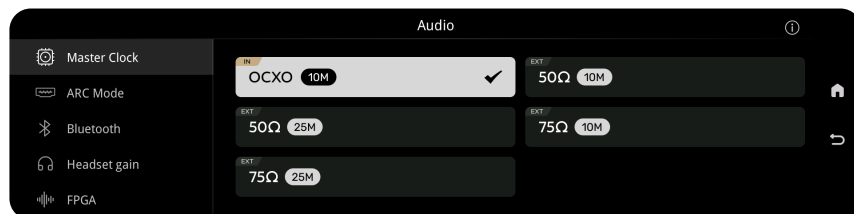
Briefly press the volume knob or press the “Function” button on the remote control to enter the settings menu.



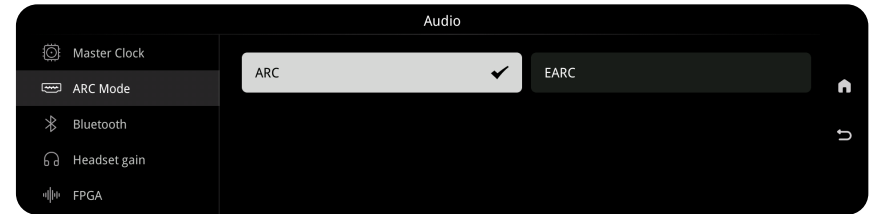
Settings

I .Audio Settings

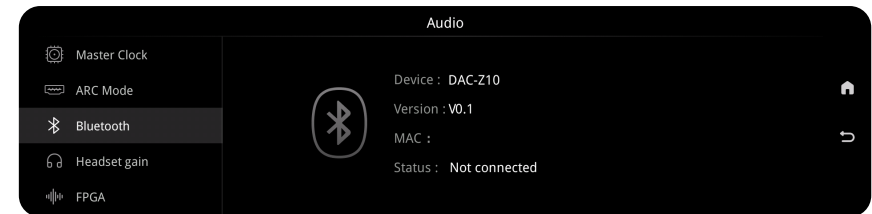
Master Clock:



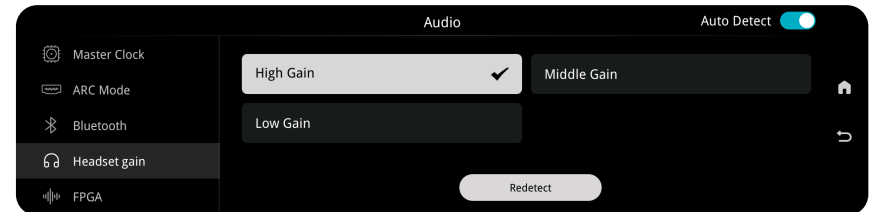
ARC Mode:



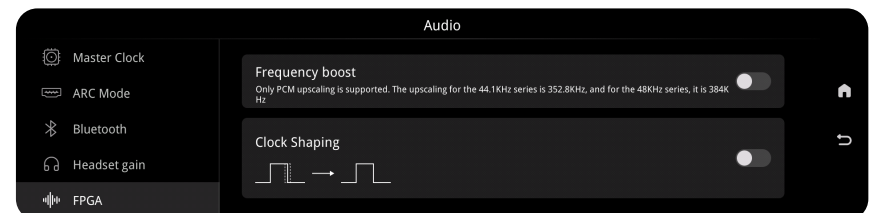
Bluetooth:



Headset Gain:

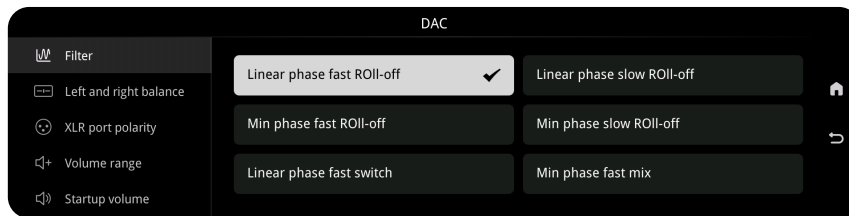


FPGA:

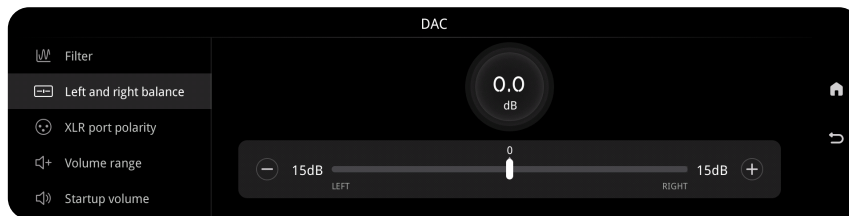


II .DAC Settings

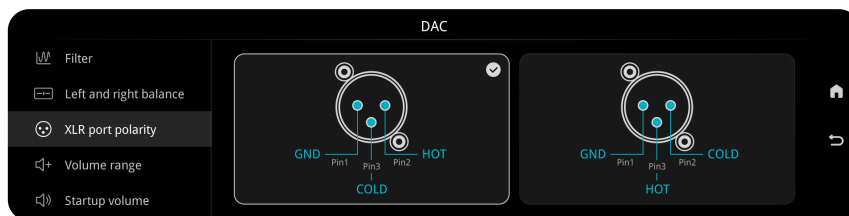
Filter:



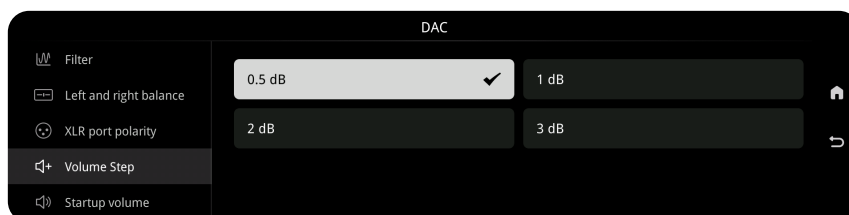
Left and Right Balance:



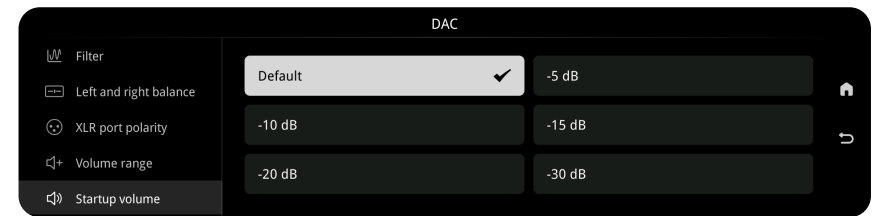
XLR Port Polarity:



Volume Step:

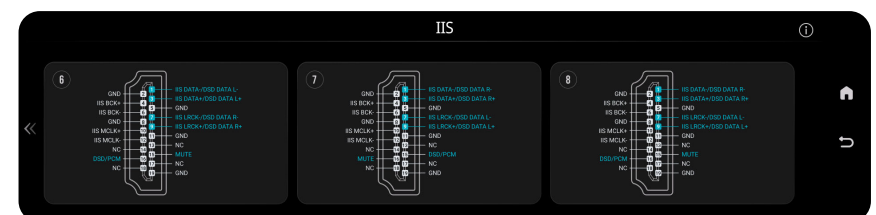
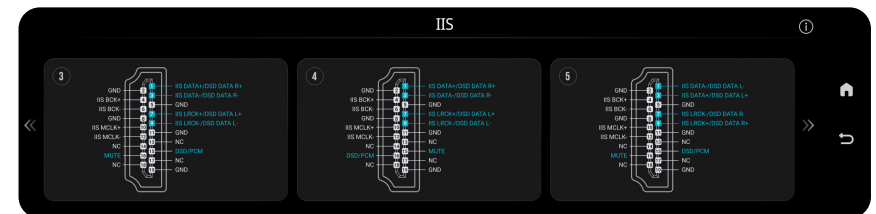
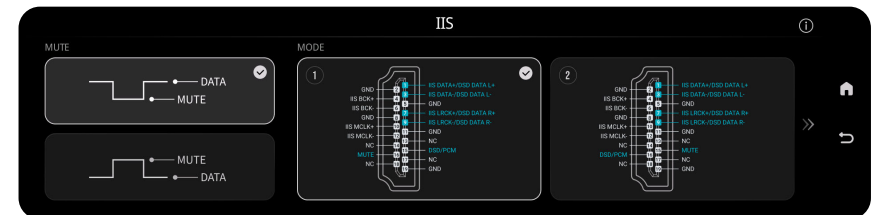


Startup Volume:



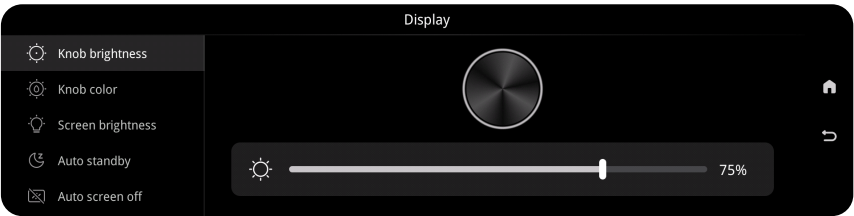
III.IIS Settings

Illustration of 8 Mode Configurations:

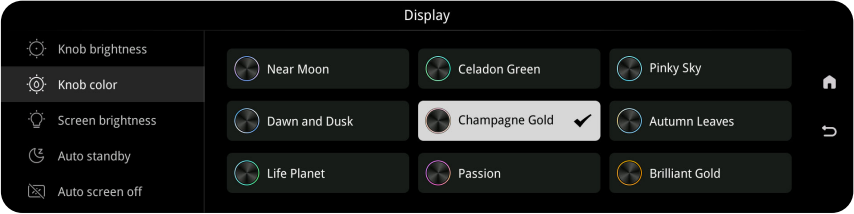


IV.Display

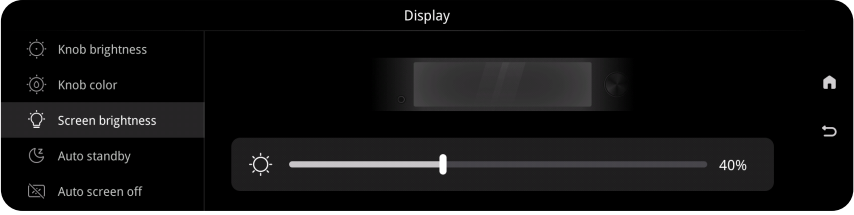
Knob Brightness:



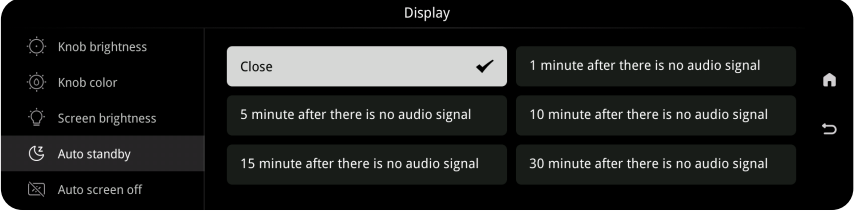
Knob Color:



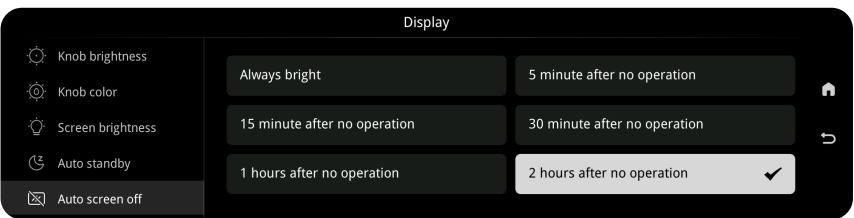
Screen Brightness:



Auto Standby:



Auto Screen off:

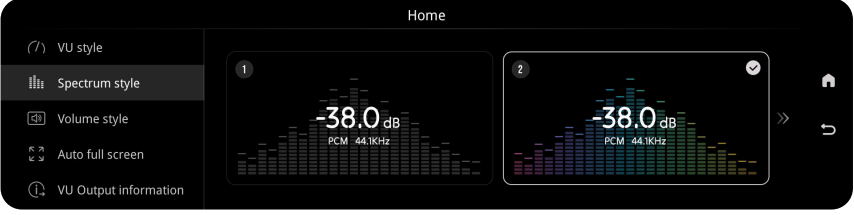


V.Home Page Settings

VU Style:



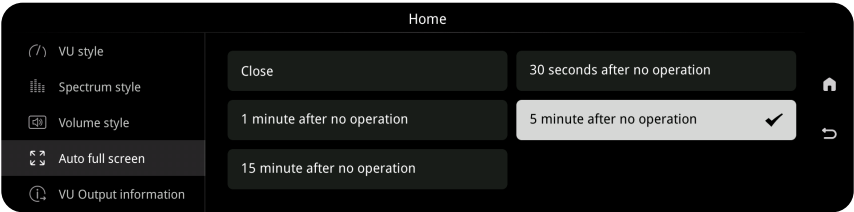
Spectrum Style:



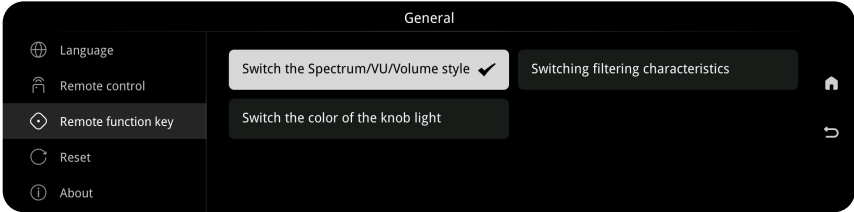
Volume Style:



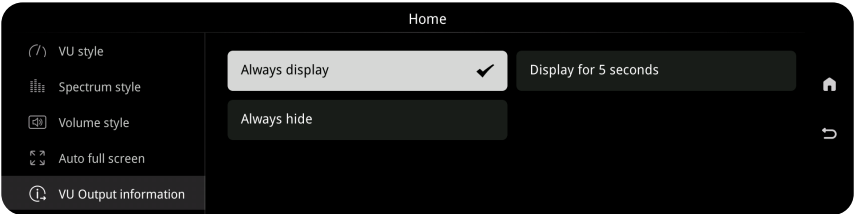
Auto Full Screen:



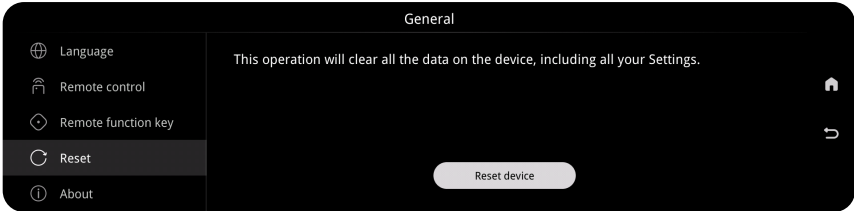
Remote Function Key:



VU Output Information:

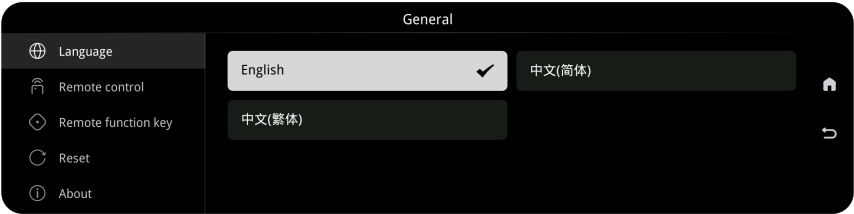


Reset:

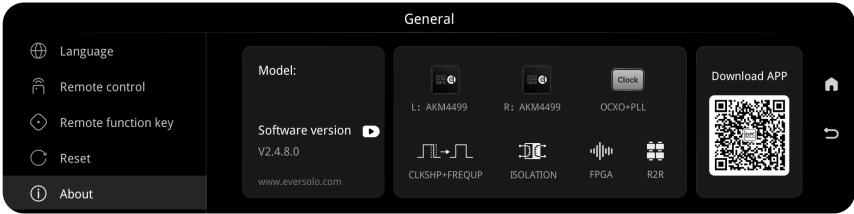


VI.General Settings

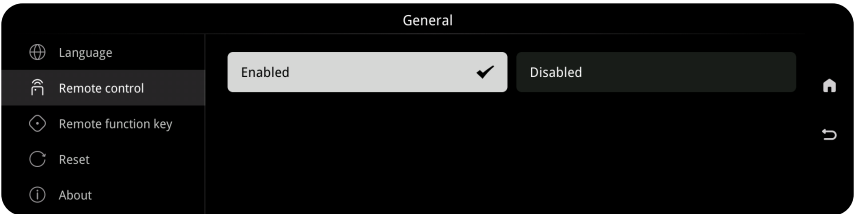
Language:



About:

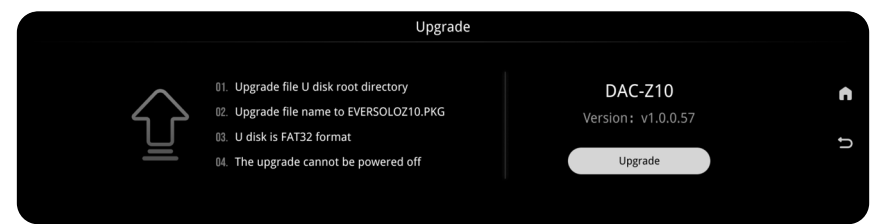


Remote Control:



Firmware Upgrade:

Download the Eversolo DAC-Z10 firmware upgrade package from the official website to a USB drive. Connect the USB drive to the device's USB Type-A port, then navigate on the device to Settings > About > Upgrade, select the upgrade file, and follow the on-screen instructions to complete the upgrade. Once finished, wait for the device to automatically restart.

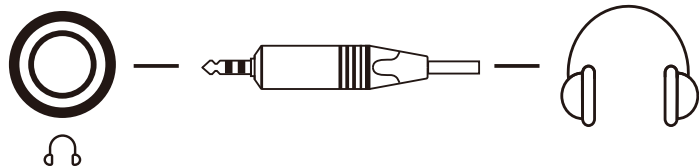


Note: Do not power off the device during the upgrade process.

Connecting Output Signals

Headphone Output:

You can connect a 6.35mm single-ended headphone directly to the DAC-Z10 headphone jack.



6.35mm Headphone Connection Diagram

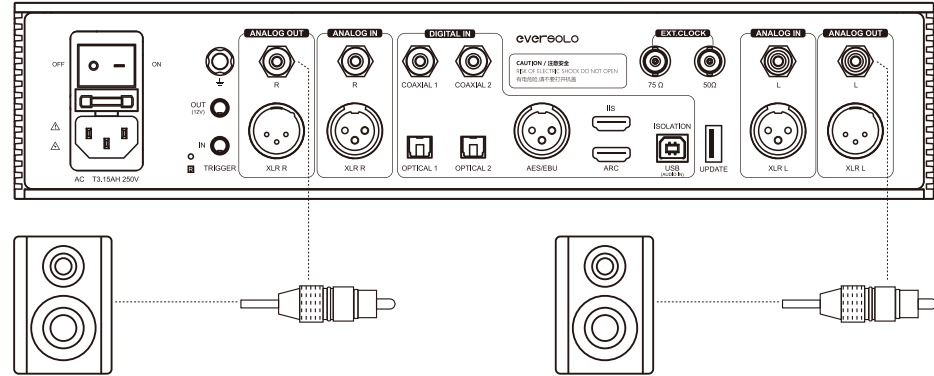
Note:

For optimal listening experience, select the appropriate gain mode in the DAC settings to match headphones with different sensitivities and impedances.

Headphone output takes priority over XLR/RCA. When a headphone is connected, the XLR/RCA signal output will be automatically disconnected.

RCA Output:

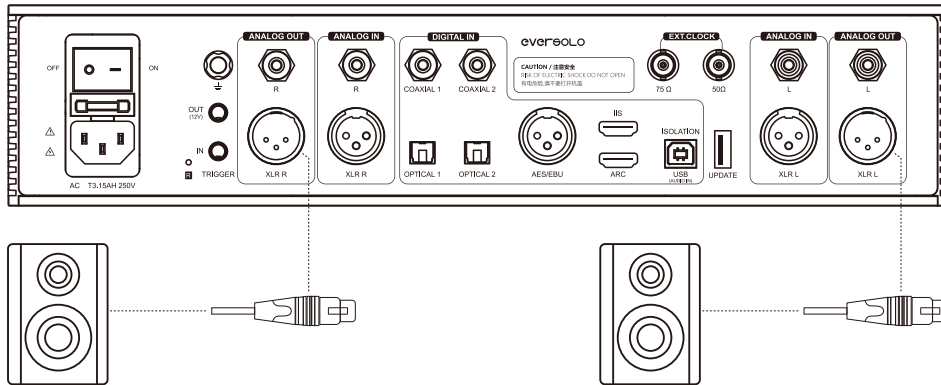
You can use an RCA audio cable to connect the DAC-Z10's RCA output ports to a power amplifier or active speakers with RCA input.



RCA Connection to Power Amplifier or Active Speakers Diagram

XLR Balanced Output:

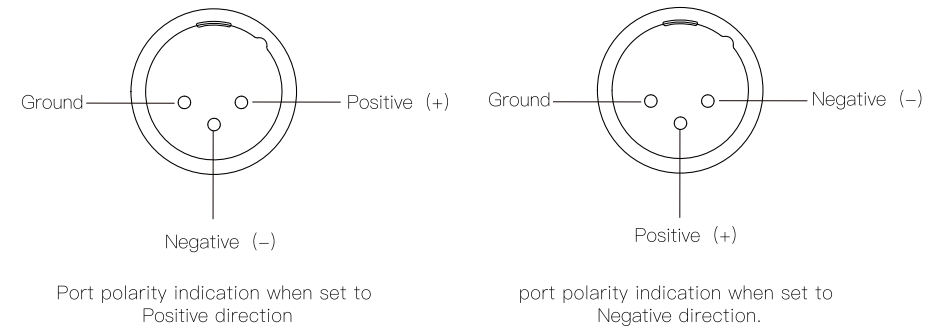
You can use XLR cables to connect the DAC-Z10's XLR output ports to a power amplifier or active speakers that support XLR balanced input.



XLR Connection to Power Amplifier or Active Speakers Diagram

Note:

On some audio systems, the polarity of XLR ports may be swapped. The DAC-Z10 is set to normal polarity by default. The corresponding port polarity is shown in the diagram below. If your connected audio equipment uses reverse polarity, please go to System Settings > DAC > XLR Polarity and set it to reversed.



★ To minimize potential signal interference when RCA and XLR outputs are used simultaneously, the DAC-Z10 allows separate output selection. When using XLR output, set the Output Port in the menu to XLR Only; similarly for RCA. Using separate output ensures higher audio performance and better sound quality.

Connecting Input Signals

The DAC-Z10 supports multiple digital audio inputs. Before use, please connect the DAC-Z10 to corresponding source.

USB-B Audio Input

Use a USB-A to USB-B data cable to connect your computer to the DAC-Z10 USB-B Audio Input. The computer serves as the digital audio source, while the DAC-Z10 acts as the sound card to decode the audio signal. When using this input, set the DAC-Z10 input source to USB-B Audio Input.

Note:

Windows systems require installation of the corresponding DAC-Z10 driver. Please refer to the resource download section below.

After connecting the computer, set Eversolo DAC-Z10 as the audio output device:

Windows: After installing the driver, open Control Panel > Hardware and Sound > Sound > Playback, and select Eversolo DAC-Z10.

Mac: No driver installation is required. After connecting, open System Preferences > Sound > Output, and select Eversolo DAC-Z10.

IIS Input

Connect your streamer to the DAC-Z10's IIS input using a high-quality HDMI cable.

The streamer acts as the audio source, while the DAC-Z10 decodes and reproduces the lossless audio signal.

When using this input, please set the DAC-Z10's input source to IIS.

AES/EBU/Optical / Coaxial Input

Use XLR, optical, or coaxial audio cables to connect a source device (such as a media player or CD player) with S/PDIF output to the DAC-Z10 AES/EBU, optical, or coaxial input for decoding.

When using AES/EBU, Optical, or Coaxial inputs, set the DAC-Z10 input source to AES/EBU, Optical, or Coaxial Input accordingly.

Bluetooth Input

The DAC-Z10 features a built-in Bluetooth receiver supporting SBC, AAC, and other Bluetooth audio protocols. Pair it wirelessly with compatible mobile devices to use the DAC-Z10 as a Bluetooth decoder.

When using Bluetooth, set the DAC-Z10 input source to Bluetooth Input, then enable Bluetooth on your mobile device, search for Eversolo DAC-Z10 to pair.

Resource Downloads

Firmware updates, USB drivers, and the mobile control app can be downloaded from the official website: www.eversolo.com

Access the Download Center to download or scan the QR codes below.

After downloading, unzip the driver package, double-click the .exe installation file, and follow the on-screen instructions to complete installation.

Mobile Control App Download

iOS / iPad



Android Google Store



Android phone/Tablet

Firmware / USB Driver Download

USB Driver Download

*It is recommended to scan the QR codes using your mobile browser.

Special Notes:

To enhance user experience, Eversolo periodically updates product firmware. The content of this manual may differ from the product's actual usage. Features or specifications are subject to change without prior notice.

For more usage instructions, please visit the official website: www.eversolo.com

Safety Warnings:

1. Do not expose this device to water or place objects containing liquids like vases on the device.
2. The device's power switch or the input socket on the rear panel is used to disconnect power. The dedicated socket should be installed near the device, easily accessible, and not obstructed by other objects.
3. This is a Class I product and must be properly grounded.

✱ The device is intended for normal use at altitudes below 2000 meters.

Warranty / Warranty Card

Certificate of Conformity

Operating Conditions:

1. Operating Temperature: 0—40°C
2. Altitude: ≤ 2000m

This product complies with the Radio Management Regulations and Technical Standards of the People's Republic of China. Its approval code (CMIIT ID) is shown on the nameplate.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.