

Eversolo EQ User Guide

Understanding EQ and Its Parameters

Introduction

An equalizer (EQ) is one of the core tools for shaping the frequency response of an audio system. By boosting or attenuating specific frequency bands, it helps optimize sound for different listening preferences and room acoustics, making it an essential tool for improving the listening experience.

This guide introduces the basic concepts of the EQ features available on Eversolo devices, their typical applications, and the available adjustment options, helping you create a personalized sound profile.

Note:

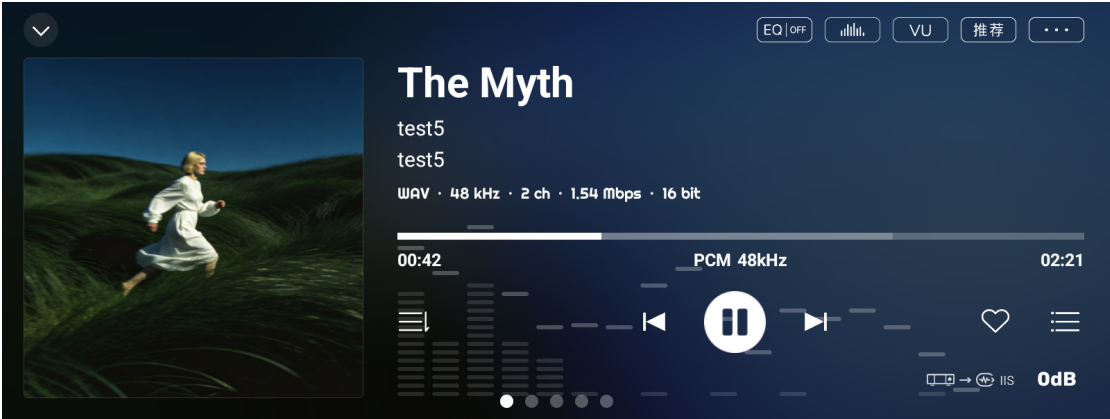
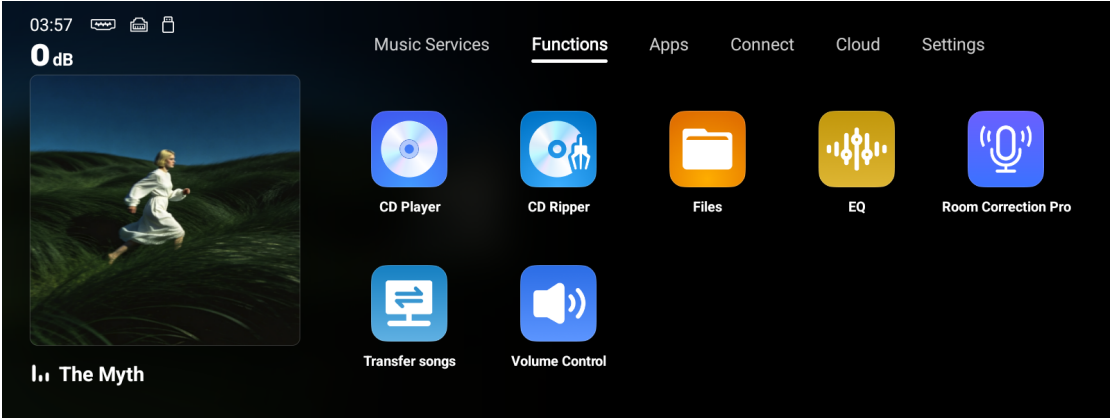
EQ processing is available only when using the **internal player** as the input source and stereo PCM audio with a sampling rate of **192 kHz or below** as the output. Stereo PCM above 192 kHz, multichannel audio, and DSD audio are all **passed through** without EQ processing.

Supported Products

- **DMP-A6 Series**
 - **PLAY Series**
 - **T8**
 - **T10**
 - **DMP-A8 Gen2**
-

Path

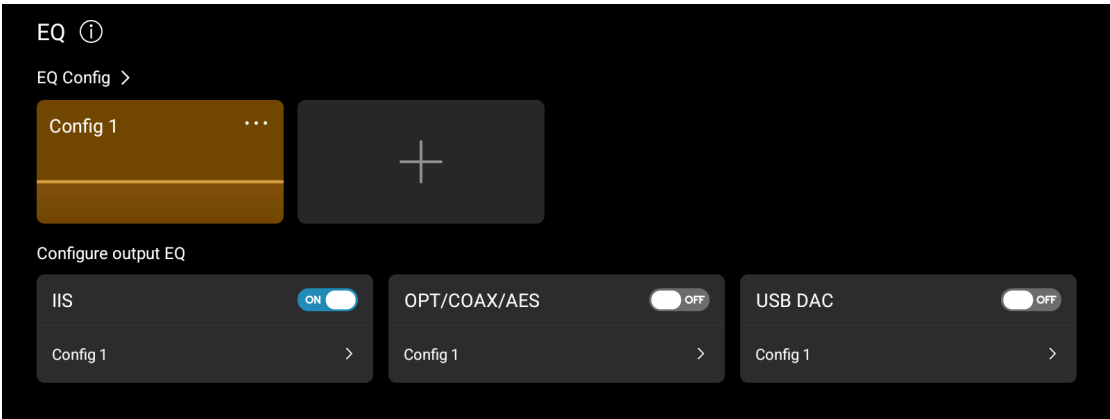
- Go to **Apps/Functions > EQ**
- Tap the EQ icon at the top of the **Now Playing screen** for quick access.



EQ Home Screen

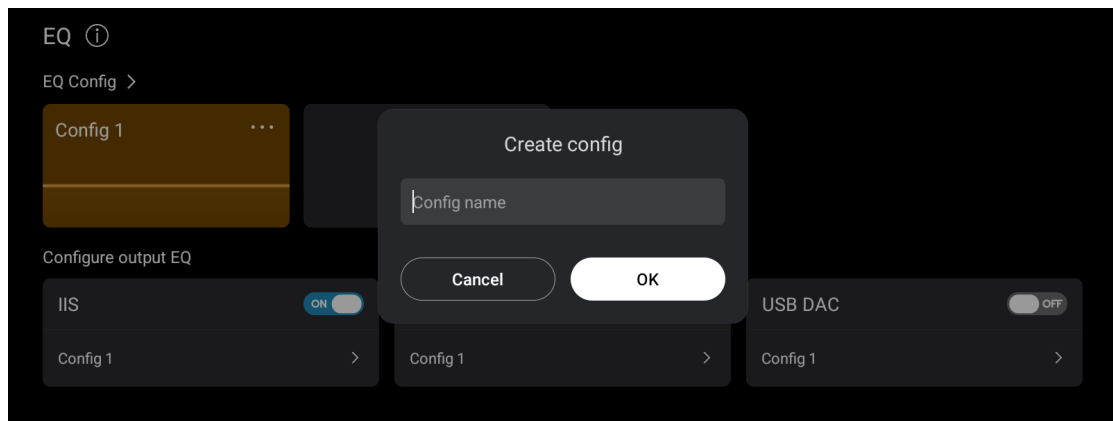
The EQ home screen consists of two sections:

- **Upper section:** EQ Config profile list
- **Lower section:** EQ assignment for each output port



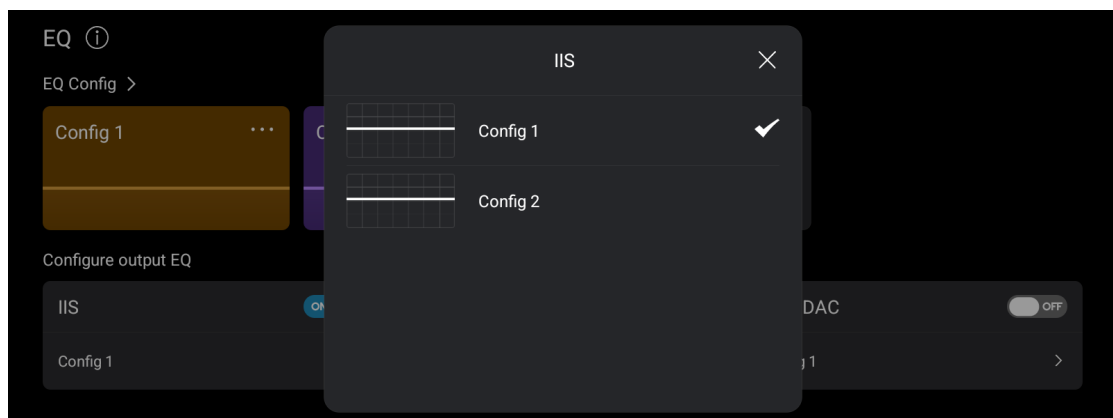
EQ Config

- The system includes **"Config 1"** by default.
- Tap the **"+" icon** to create additional EQ profiles for different devices, listening environments, or personal preferences.



Configure Output EQ

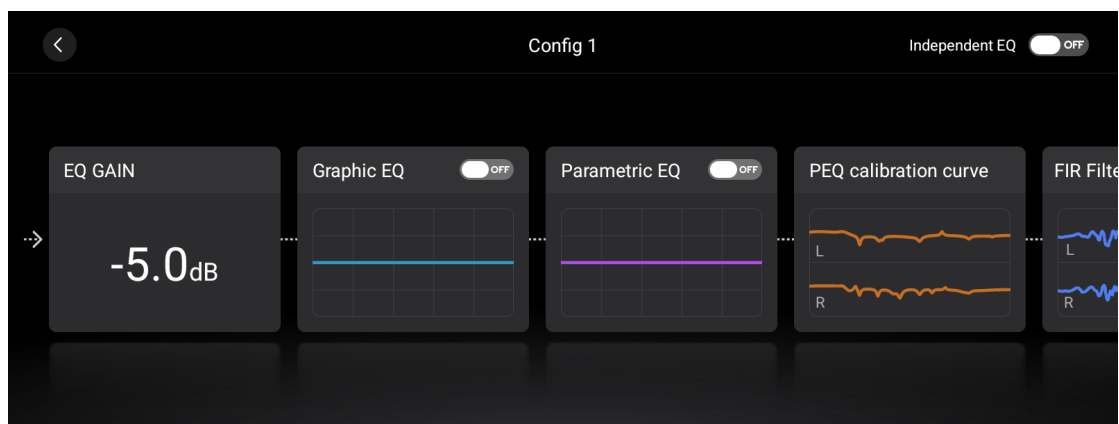
- EQ can be enabled or disabled independently for **each output port**.
- Each output port can be **assigned a different EQ profile** for more flexible audio management.



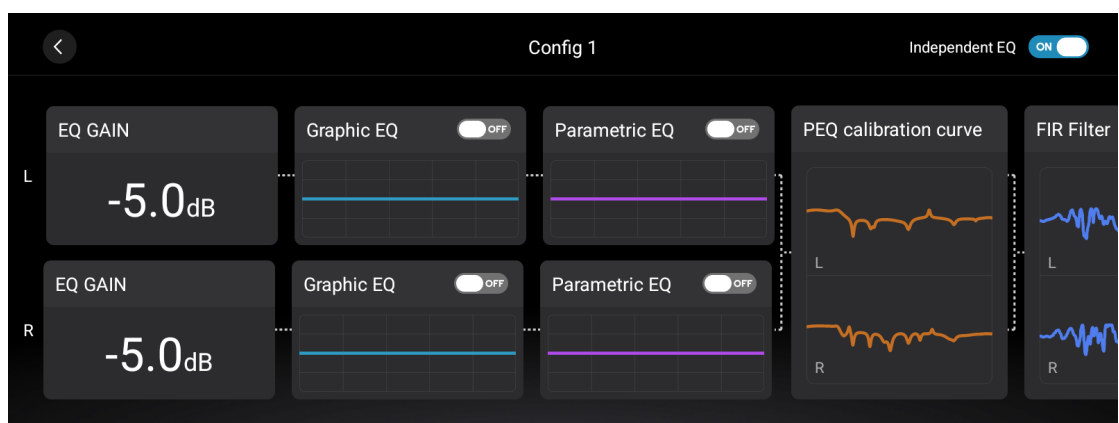
EQ Config

Tap the Config on the main screen to view the details, which includes the following options:

- **EQ GAIN**
- **Graphic EQ**
- **Parametric EQ**
- **PEQ Calibration Curve**
- **FIR Filter**
- **Loudness**
- **Balance**

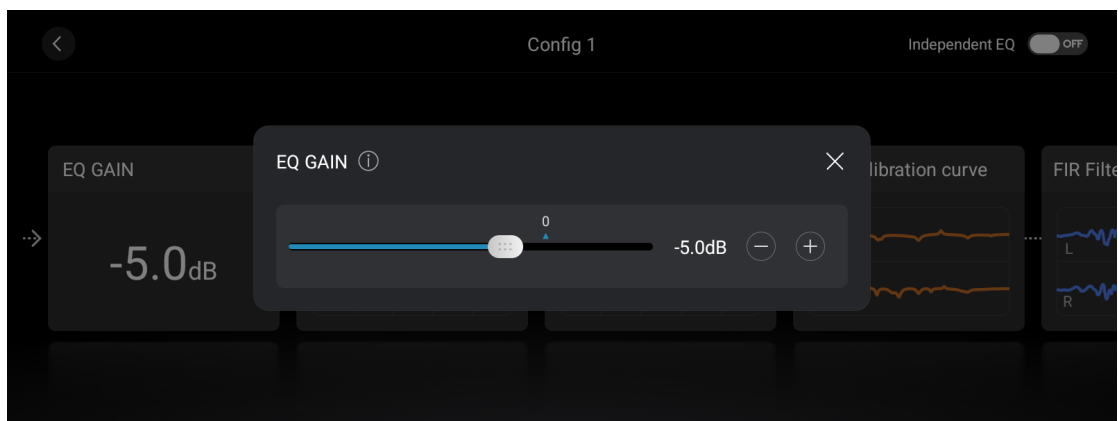


Enable **Independent EQ** in the upper-right corner to configure the left and right channels separately.



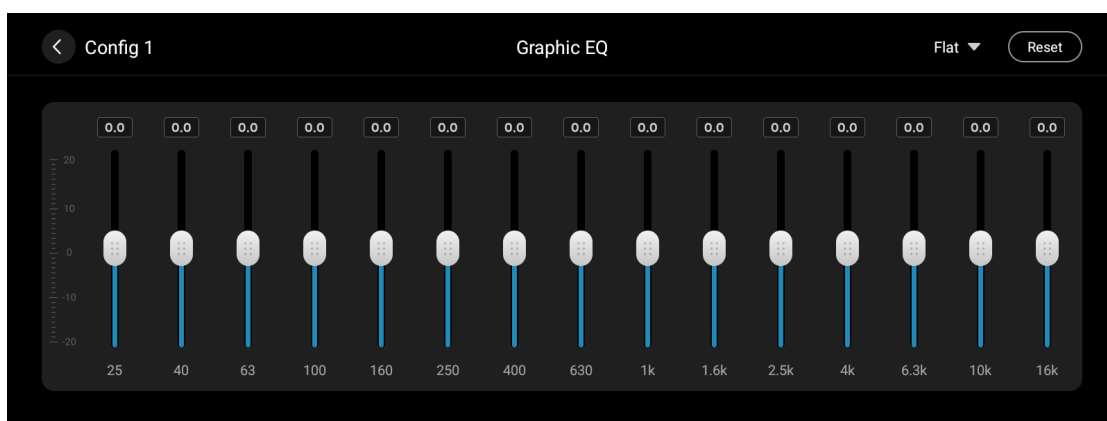
EQ GAIN

For optimal performance, keep the gain around **-5 dB** and avoid exceeding **0 dB** to prevent audio distortion.



Graphic EQ

Supports **15-band** equalization with multiple built-in presets for different music genres. Tap **Reset** to restore the default settings.

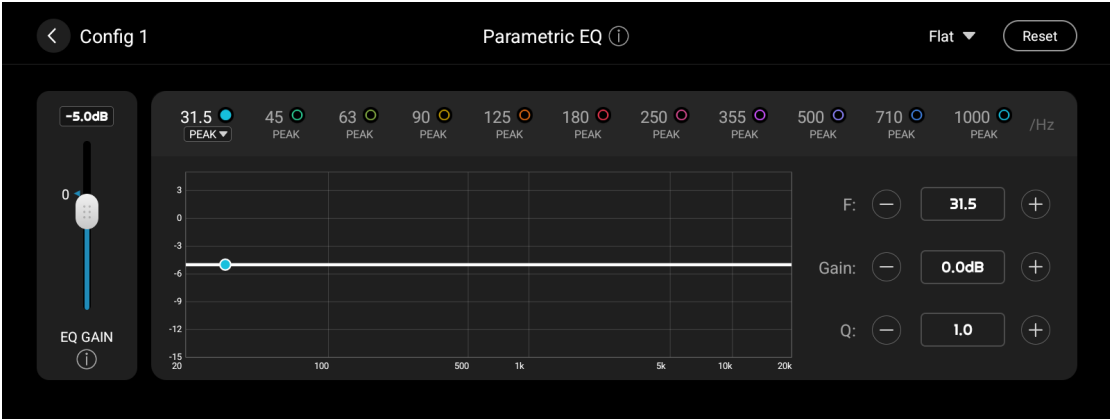


Parametric EQ

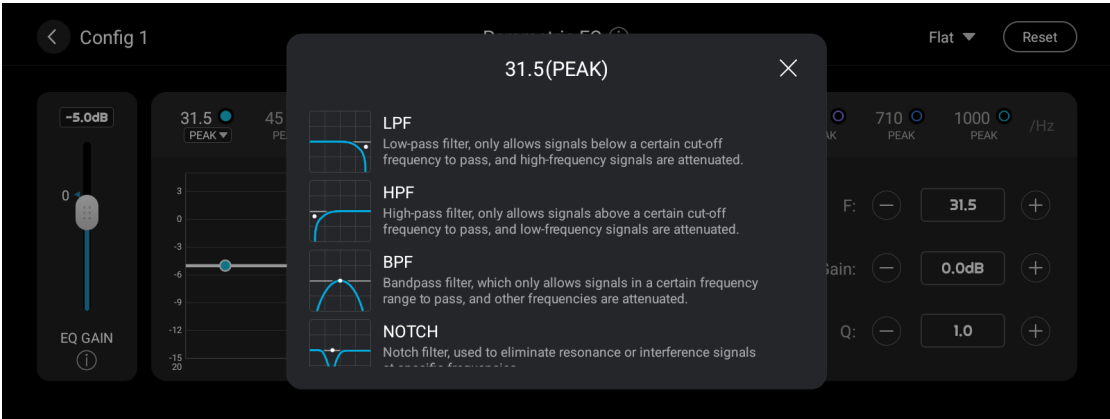
Provides precise multi-band adjustment. The number of available bands varies by product model (see the table below). Each band allows independent adjustment of **Frequency**, **Gain**, and **Q**, with selectable filter types and built-in genre presets. Tap Reset to restore the default settings.

Note:

For the best results, import your room calibration data first, then fine-tune the Graphic EQ or Parametric EQ based on your listening preferences.



Parametric EQ	
Product	Ajustable Bands
DMP-A6 Series PLAY Series T8	10
T10 DMP-A8 Gen2	20



Filter Types		
Abbr.	Filter	Description
LPF	Low-Pass Filter	Passes frequencies below the cutoff frequency while attenuating higher frequencies.

HPF	High-Pass Filter	Passes frequencies above the cutoff frequency while attenuating lower frequencies.
BPF	Band-Pass Filter	Passes only frequencies within the selected range while attenuating all others.
NOTCH	Notch Filter	Removes resonance or unwanted signals at a specific frequency.
PEAK (Default)	Peak Filter	Boosts or attenuates frequencies around the selected center frequency.
LSHELF	Low Shelf Filter	Boosts or attenuates low frequencies.
HSHELF	High Shelf Filter	Boosts or attenuates high frequencies.
APF	All-Pass Filter	Preserves amplitude while altering the phase response.

PEQ Calibration Curve

Imports the PEQ compensation curve generated by Room Correction to compensate for room-induced frequency response issues. After importing, tap Edit to fine-tune the compensation curves for the left and right channels independently, allowing further adjustment to match your listening preferences or asymmetric room acoustics.



FIR Filter

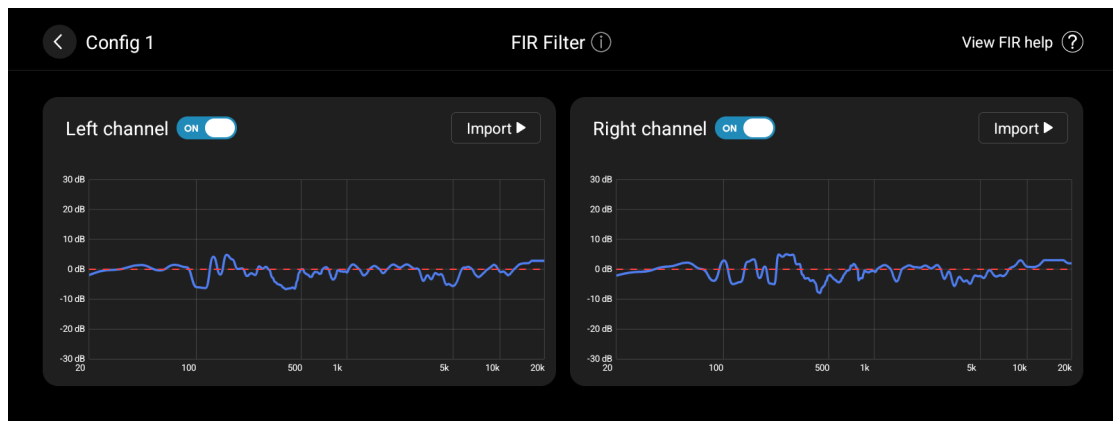
Imports a high-precision linear-phase FIR filter generated by Room Correction. Compared with conventional EQ, FIR filters correct the frequency response while preserving phase consistency, delivering more accurate and natural acoustic correction. They are particularly suitable for systems where soundstage imaging and tonal accuracy are critical. In addition to the built-in Room Correction feature, FIR filters can also be generated with Room EQ Wizard (REW) and imported manually, providing greater flexibility for advanced users.

Note:

FIR filters are imported as files. Separate filter files can be assigned to the left and right channels.

Supported formats: **.bin** and **.wav**

- **.bin**: Filter coefficient files generated by FIR filter design software such as REW. Coefficients must use the IEEE754 single-precision floating-point binary format.
- **.wav**: FIR impulse response files. A 32-bit floating-point format is recommended, such as WAV filter files generated by REW.



Note:

PEQ Calibration Curve and FIR Filter can be enabled simultaneously for enhanced listening experience.

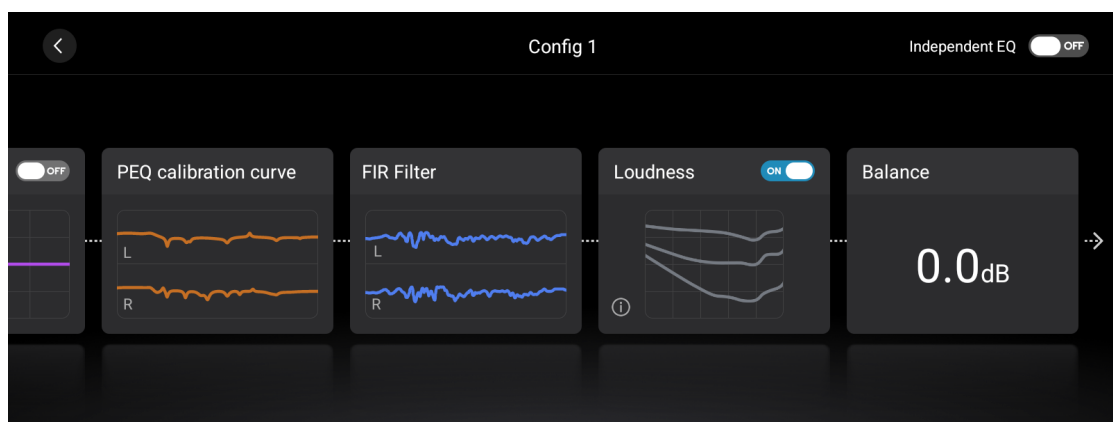
Loudness

At lower listening volumes, the human ear becomes less sensitive to low and high frequencies, making the sound appear thinner. The Loudness function automatically compensates for bass and treble based on the current playback content, helping maintain a fuller and more balanced sound.

4 compensation levels are available. The system automatically applies the appropriate compensation when the volume is below **-15 dB**, with no manual adjustment required.

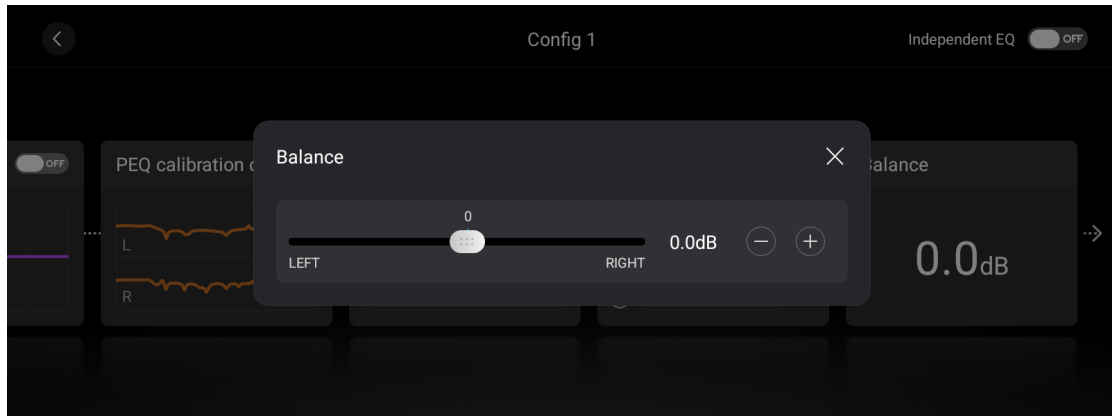
Note:

This feature is available only on **T10** and **DMP-A8 Gen2**.



Balance

Adjusts the output balance between the left and right channels, with an adjustment range of **-6 dB to +6 dB**. At **0 dB**, both channels output at the same level for a centered stereo image. Positive values increase the right channel level, while negative values increase the left channel level, allowing precise compensation based on speaker placement or listening preference.



Eversolo product firmware is updated periodically, therefore the operation interface and descriptions in this guide may slightly differ from actual usage.

Specific functions and paths are subject to the device's current system version.