

TOPPING

TOPPING Tune

V1.2

使用指南 

Reference Guide 

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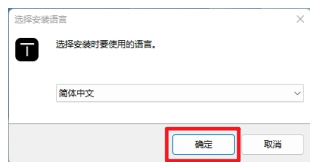
## 1. 安装和打开TOPPING Tune

### 系统要求

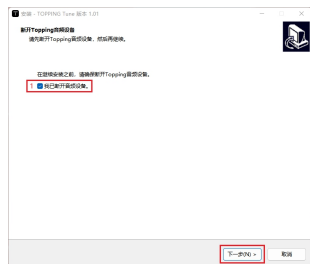
- Windows 10或更高版本。
- 使用奔腾CPU的PC（或同等性能的兼容PC），基础频率至少达到1GHz。更快的CPU能更好地发挥性能。
- 2GB内存，推荐使用4GB及以上。
- 空闲的USB 2.0（或3.0）接口。
- 足够大的硬盘空间（最好要达到512GB）

### Windows

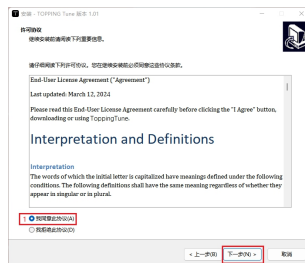
1. 访问网站<https://www.topping.audio/> 下载TOPPING Tune应用程序。
2. 双击运行安装包，并根据提示安装TOPPING Tune。



(1)



(2)



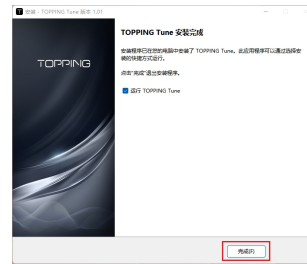
(3)



(4)



(5)



(6)

3. 使用随附的USB线，连接电脑和设备的USB-C口，如遇到供电不足可尝试再连接5V适配器（不附带）到POWER口。

\* 注：PEQ仅支持USB输入。

4. 双击电脑桌面上的TOPPING Tune快捷方式，以启动TOPPING Tune。

5. 当电脑已经联网，连接设备后，若有新固件可更新，TOPPING Tune会通知您。

## 2. 概览

### 1. 系统设置

可进行选择语言、更改导出EQ文件目录、检查更新、查看版本信息以及重启软件等。

### 2. 其他设置

可导入和选择目标曲线或者源频率曲线以及导出调好的频率曲线。

### 3. 保存和调用配置区

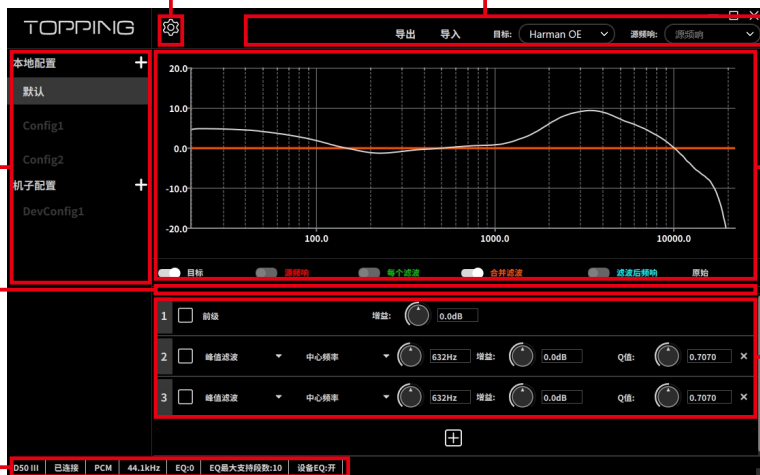
可将本地配置好的频率曲线添加到本机配置。设备可离线使用本机配置中的频率曲线。

### 5. 分隔区

上下拖动可分别放大PEQ设置区或者图表区。

### 7. 信息栏

可查看设备型号、连接状态、音频格式、选中EQ段数、EQ最大支持段数以及设备EQ的开关状态等。



### 4. 图表区

可以查看目标曲线、源频率曲线、每个滤波器的曲线以及叠加后的滤波器曲线。

### 6. PEQ设置区

最高可设置10段EQ段。

## 3. 系统设置



### 1. 系统设置

语言选择：简体中文、English

EQ导出文件存储目录：点击“更改目录”即可进行修改。

开机自动运行：勾选可启用该功能。

Filtered FR对齐：勾选可启用该功能。该功能可使得滤波后的曲线在500Hz处的响应对齐至0dB。

关闭面板：关闭面板的方式二选一。

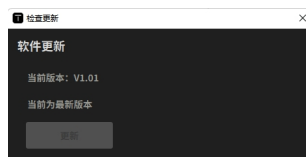
1. 最小化到托盘，不退出程序
2. 退出程序

### 2. 版本信息

可查看设备型号、设备硬件版本、设备软件版本和TOPPING Tune当前版本。

### 3. 检查更新

点击“检查更新”，可查看当前软件的版本以及最新版本。若检测不是最新版本，点击“更新”，可自动更新官网上最新的软件版本。这时请不要做任何操作，直到TOPPING Tune软件重启，这表示软件更新完成了。



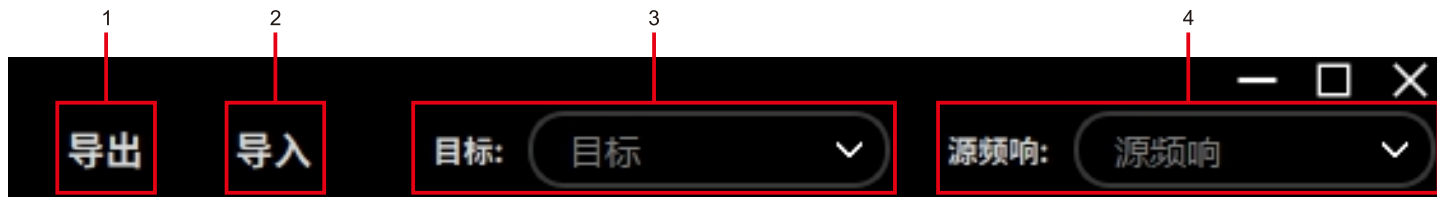
### 4. 官网

点击“官网”，即可访问官方<https://www.topping.audio/>

### 5. 保存设置

点击“保存设置”，即可保存当前系统设置。

## 4. 其他设置



### 1. 导出

点击“导出”即可导出当前的曲线文件。


### 2. 导入

点击“导入”即可选择导入目标曲线或者源频响曲线文件。

### 3. 目标曲线文件

点击 ，可以选择您想要的目标曲线文件。比如，Harman OE为哈曼包耳式目标曲线。

### 4. 源频响曲线文件

点击 ，可以选择您想要的源频响曲线文件。

## 5. 保存和调用配置区



### 1. 本地配置

该功能适用于不同的听音习惯、音乐类型和使用场景的用户，您可以根据自己的需求来配置不同频率响应曲线。当切换场景时，您可以快速选择不同的配置，而无须重新逐个配置。

#### 创建本地配置

单击本地配置右边的 **+**，命名并回车即可创建成功。选中任意配置再点击 **+**，即可复制该配置。



#### 重命名

在对应的配置右击鼠标，选择“重命名”，即可重命名。



#### 删除

在对应的配置右击鼠标，选择“删除”，即可删除。



### 2. 机器配置

该功能可以将本地配置好的频响曲线添加到机子上，机器可以离线使用该配置。

#### 添加机器配置的方式：

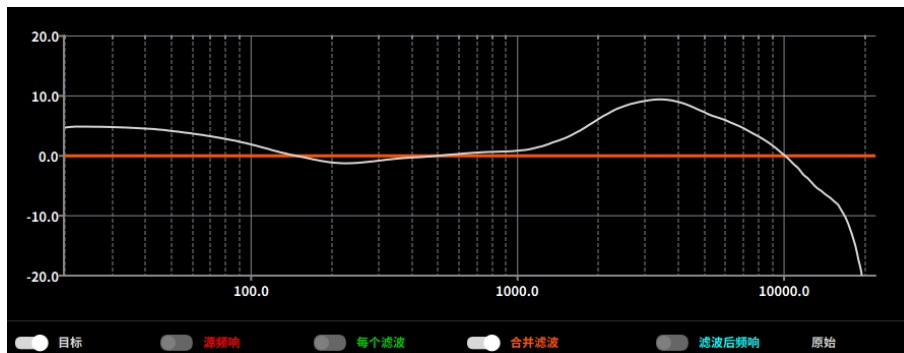
1. 选中您想要的本地配置，右击鼠标，选择“导入下位机”



2. 选中您想要的配置，点击机器配置右边的 **+**



## 7. 图表区



未开启



已开启



原始的



补偿的

目标：开启/关闭目标曲线

源频响：开启/关闭源频响曲线

每个滤波：开启/关闭每个滤波器曲线

合并滤波：开启/关闭复合滤波器曲线

滤波后频响：开启/关闭滤波后的曲线

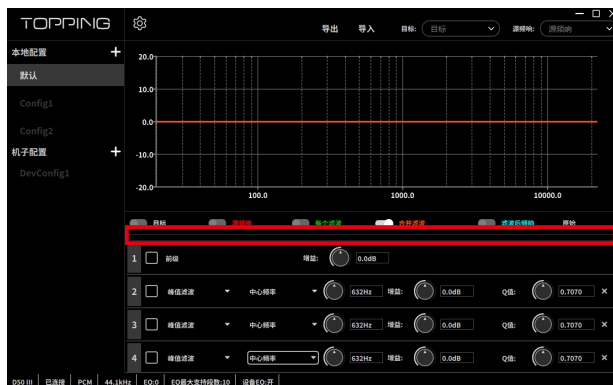
Raw：不使用目标曲线补偿

Compensated：使用目标曲线补偿

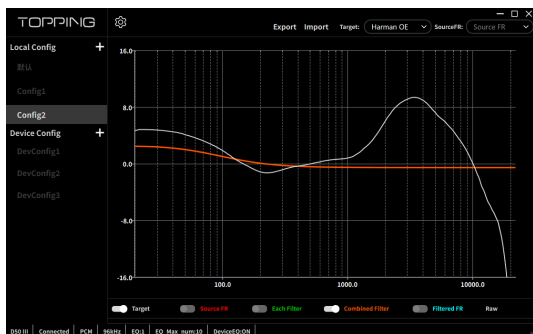
\* 使用鼠标滚轮对Y轴进行缩放，可以更清晰地观察到细微的频率响应变化，从而能够实现更加精确的均衡设置。



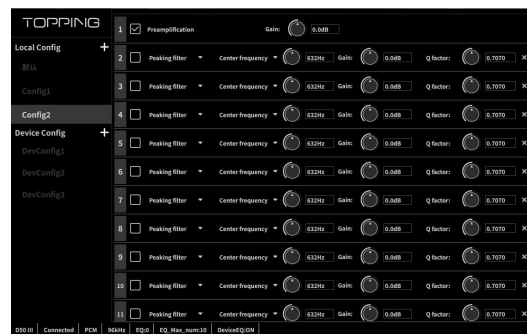
## 6. 分隔区



在此区域，上下拖动可分别放大PEQ设置区或者图表区。



向下拖动



向上拖动

## 8. PEQ设置区



## 1. 前置放大器



指整体增益或衰减，调节之后对所有频点都生效，调节范围为 $\pm 12\text{dB}$ 。

注：滤波后的曲线（Filtered FR）不受前置放大器的影响。

## 2. EQ段



1. 复选框：勾选复选框 ，即代表选中该EQ段

2. 滤波器类型：

峰值滤波器（Peaking filter）：在频率响应中创建谷或者峰。

低通滤波器（Low-pass filter）：允许低于给定频率的信号通过，阻止或者衰减高于给定频率的信号。

低滤搁架滤波器（Low-shelf filter）：可选择性衰减或者提升低于给定频率的信号。

高通搁架滤波器（High-shelf filter）：衰减或者提升高于给定频率的信号。

3. 频率：对于峰值滤波器，这是峰值或谷的中心频率；对于低通或高通滤波器，这是衰减到-3dB的截止频率；对于低滤搁架或者高通搁架滤波器，这是增益为设定值一半的位置的频率。

4. 增益：可提升或衰减对应频点的音量，调节范围为 $\pm 12\text{dB}$ 。

5. Q值：指您想要进行增益或者衰减的频段的带宽，即该频率点增益的影响范围，调节范围为0.1~15。当Q值越大，对应的曲线越陡，影响的频段越小；反之，对应的曲线越平缓，影响的频段越大。

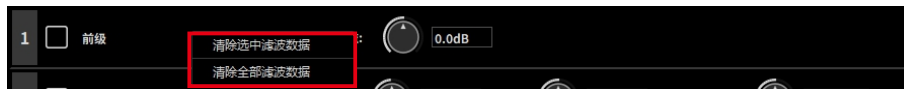
\* 修改频率/增益/Q值：在图标 上下滑动鼠标滚轮，或者在框内输入数值后回车。双击旋钮 可恢复默认值。

6. 删除：单击 ，即可删除当前的EQ段。

## 3. 添加

最多可添加10段EQ段。

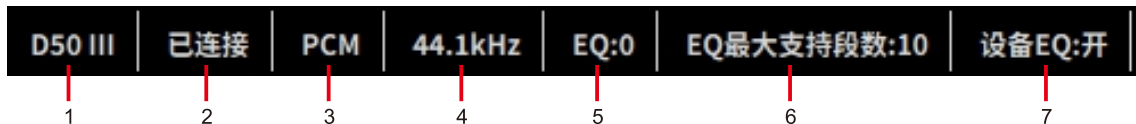
## 4. 清除滤波器参数



清除选中滤波器数据：重置该EQ段。

清除全部滤波器数据：重置所有的EQ段，包括前级。

## 9. 信息栏



### 1. 机型

若连接成功，则会显示当前使用的设备型号。

### 2. 连接状态

未连接、已连接

### 3. 音频格式

PCM、DSD

### 4. 采样率

显示当前播放的歌曲的采样率

PCM: 44.1kHz~768kHz

DSD: 2.82MHz~22.56MHz

### 5. 选中EQ段数

在PEQ设置区中，所有勾选  的EQ段数总和。

### 6. EQ最大支持段数

PCM 44.1kHz~192kHz: 10段

PCM 352.8kHz~768kHz、DSD: 0段

注：PEQ最高支持PCM 192kHz/32bit。

### 7. 设备的EQ开启/关闭

PC若设备在未连接状态下，则不会显示设备的EQ开启或关闭状态。

若设备在已连接状态下，则“开”表示在设备上已开启EQ，“关”表示在设备上未开启EQ。

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# System requirements

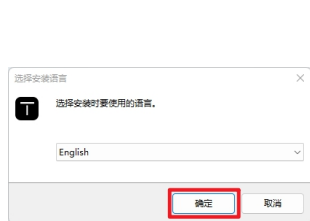
## 1. Installing and Launching TOPPING Tune

### System requirements

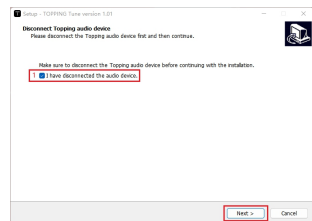
- Windows 10 or later.
- 1 GHz Pentium-based PC (or compatible) . Faster CPUs are recommended for best performance.
- 2 GB RAM; 4 GB or more recommended.
- Available high-speed USB 2.0 (or 3.0) port.
- A large hard drive (preferably at least 512 GB) .

### Windows

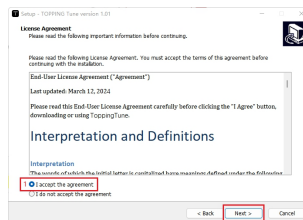
1. Visit <https://www.topping.audio/> to download the TOPPING Tune application.
2. The installer was designed to be easy to use. Open the installer and simply follow the onscreen instructions.



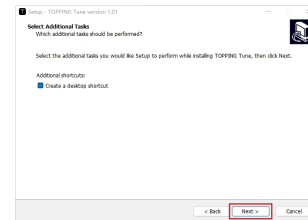
(1)



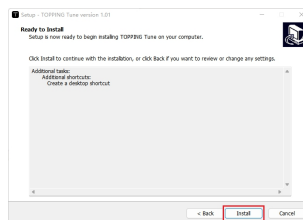
(2)



(3)



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(5)



(6)

3. Connect PC and USB-C port on the unit with included USB cable. If more power is required, connect a 5V adapter (not included) to the POWER port.
- \*Note:** PEQ supports USB input only.
4. Double-click the TOPPING Tune shortcut on the desktop to launch it.
  5. If your computer is connected to the internet, the TOPPING Tune app will check for firmware updates whenever a unit is connected. If there is a firmware update available then the TOPPING Tune app will notify you.

## 2. Overview

### 1. System settings

You can select the language, change the directory of the exported EQ file, check for updates, view the version information, restart the software, and more.

### 2. Other settings

Import and select target or source frequency response curves and export tuned frequency response curves.

### 3. Save and load configuration

You can add tuned frequency response curves from local configurations to the device configuration so that you can use them offline.

### 5. Divided section

You can drag up or down to zoom in to PEQ setting section or chart section, respectively.

### 7. Information bar

You can view the device model, connection status, audio format, the number of selected EQ band, the maximum number of supported band for EQ, and the on/off status of the unit's PEQ.



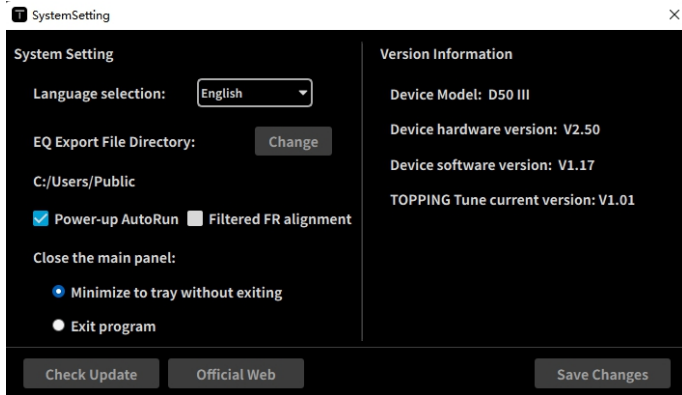
### 4. Chart section

You can view target curves, source frequency curves, curves for each filter, and stacked filter curves.

### 6. PEQ setting section

Up to 10 band Equalizer can be set.

## 3. System settings



### 1. System setting

**Language:** Chinese, English

**EQ export file storage directory:** Click "Change" to modify.

**Power-on autorun:** Tick to enable this function.

**Filtered FR alignment:** Tick to enable this function. This function aligns the response of the filtered curves to 0dB at 500Hz.

**Close the main panel:** Choose one of the two ways to close the panel.

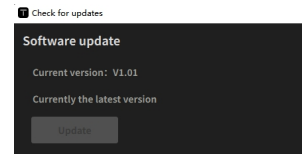
1. Minimize to tray without exiting
2. Exit program

### 2. Version Information

Check the device model, device hardware version, device software version and the current version of TOPPING Tune.

### 3. Check Update

Click "Check Update" to check the current software version and the latest version. If it is not the latest version, click "Update" to automatically update the latest software version on the official website. Please don't do anything at this time until the Topping Tune software restarts, which means the software update is complete.



### 3. Official Web

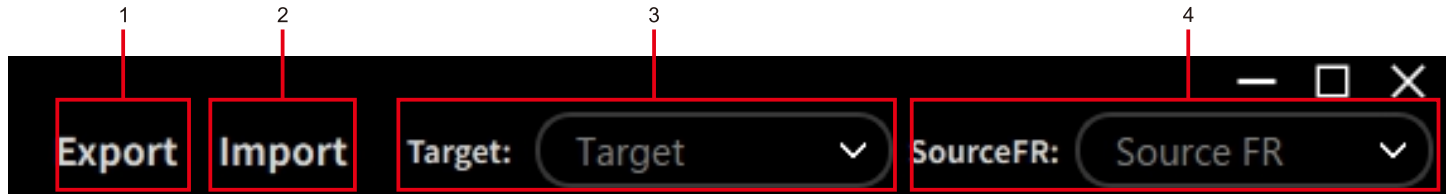
Click on "Official Web" to visit <https://www.topping.audio/>

### 4. Save Changes

Click "Save Changes" to save current settings.



## 4. Other settings



### 1. Export

Click "Export" to export current curve file.

### 2. Import

Click "Import" to select the target curve or source frequency response curve file to be imported.

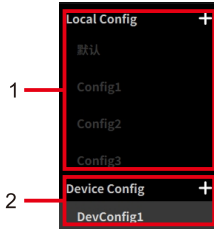
### 3. Target curve files

Click  to select the desired target curve file. For example, Harman OE is the Harman over-ear target curve.

### 4. Source frequency response curve files

Click  to select the source frequency response curve file you want.

## 5. Save and load configuration



### 1. Local Configuration

This function is suitable for users with different listening habits, music types and usage scenarios. You can configure different frequency response curves according to your needs. When you change the usage scenario, you can quickly load the settings saved earlier.

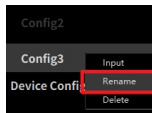
#### Create local configurations

Click **+** to the right of the local configuration, name it and enter to create it successfully. Select any configuration and click **+** to copy it.



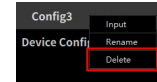
#### Rename

Right-click on the corresponding configuration and select Rename.



#### Delete

Right-click on the corresponding configuration and select Delete.

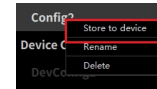


### 2. Device Configuration

Load local configuration onto the device for offline use.

#### Ways to add device configuration:

1. Select the local configuration you want, right-click and select "Store to device".

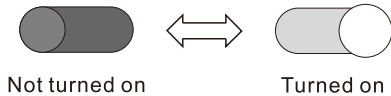
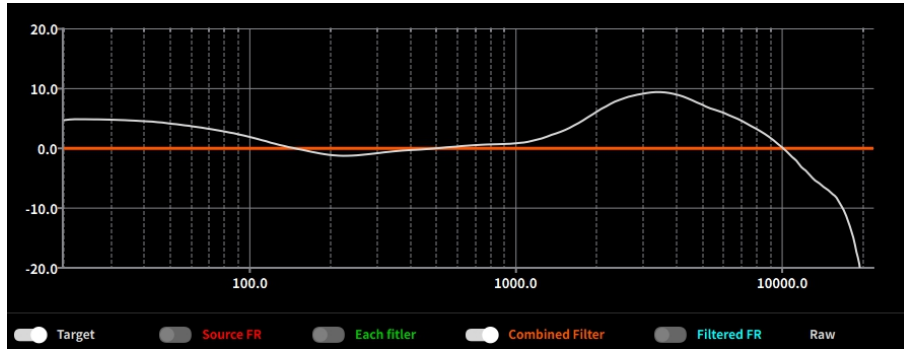


2. Select the configuration you want and click the **+** to the right of the device configuration.



# Chart section

## 7. Chart section



**Target:** Enable/Disable the target curve

**Source FR:** Enable/Disable the source frequency response curve

**Each Filter:** Enable/Disable the each filter curve

**Combined Filter:** Enable/Disable the combined filter curve

**Filtered FR:** Enable/Disable the filtered curve

**Raw:** No target curve compensation is used

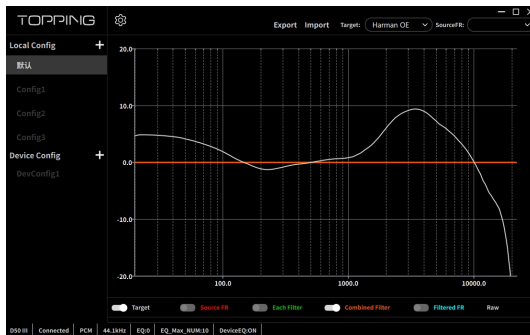
**Compensated:** Use target curve compensation

\* Using the mouse wheel to zoom in and out on the Y-axis, you can clearly observe subtle frequency response changes, allowing for more specific EQ settings.

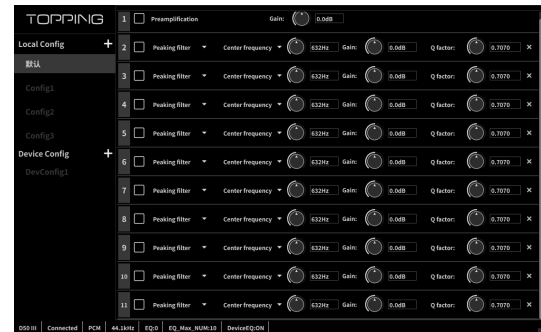
## 6. Divided section



In this section, drag up or down to zoom in to PEQ setting section or chart section, respectively.

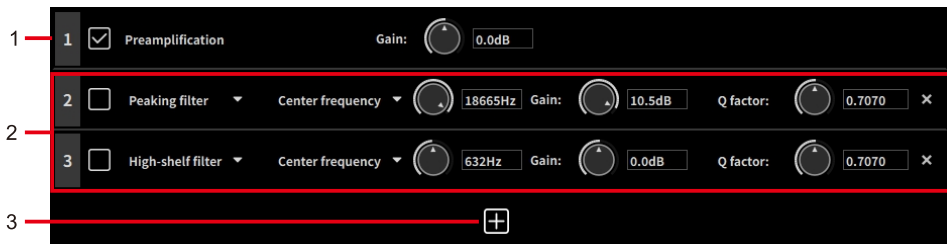


Drag down



Drag up

## 8. PEQ setting section



### 1. Preamplification



Refers to the overall gain or attenuation, which is effective for all frequency points after adjustment, and the adjustment range is  $\pm 12$ dB.

Note: The filtered curve (Filtered FR) is unaffected by the preamplification.

### 2. Equalization band



1. **Checkbox:** Tick the checkbox  that means this EQ band is selected.

#### 2. Filter types:

**Peaking filter:** Create valleys or peaks in the frequency response.

**Low-pass filter:** Allows signals below a given frequency to pass and prevents or attenuates signals above a given frequency.

**High-pass filter:** Allows signals above a given frequency to pass and prevents or attenuates signals below a given frequency.

**Low-shelf filter:** Selectively attenuates or boosts signals below a given frequency.

**High-shelf filter:** Attenuates or boosts a signal above a given frequency.

3. **Frequency:** For peaking filter, it is the center frequency of the peak or valley; for low-pass or high-pass filter, it is the cutoff frequency attenuated to -3dB; for low-shelf or high-shelf filter, it is the frequency at which the gain is half of the set value

4. **Gain:** It can boost or attenuate the volume of the corresponding frequency point, and the adjustment range is  $\pm 12$ dB.

5. **Q factor:** It refers to the bandwidth of the band you want to gain or attenuate, i.e. the influence range of the gain at that frequency point, and the adjustment range is 0.1 ~ 15. When the Q value is higher, the corresponding curve is steeper, and the influence of the band is smaller; on the contrary, the corresponding curve is flatter, and the influence of the band is larger.

\* Change frequency/gain/Q factor: Place the mouse on the knob and use the mouse wheel to adjust. Or you can enter the value directly in the box. Double-click the knob to reset it.

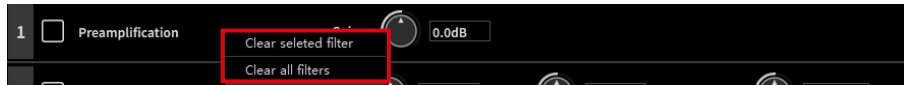
6. **Delete:** Click to delete the current EQ band.

### 3. Add

Up to 10 band Equalizer can be added.

# PEQ setting section

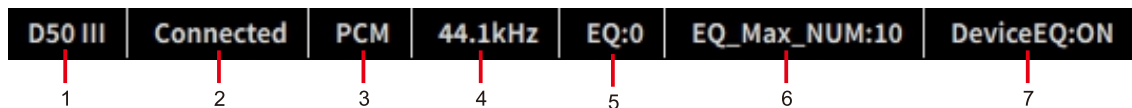
## 4. Clear filter values



**Clear selected filter:** Reset the EQ band.

**Clear all filters:** Reset all EQ band, including the preamplification.

## 9. Information bar



### 1. Device

If connected successfully, the device model currently in use is displayed.

### 2. Connection status

Disconnected, connected

### 3. Audio format

PCM,DSD

### 4. Sampling rate

Show the sample rate of the song being played.

PCM: 4.1kHz~768kHz

DSD: 2.82MHz~22.56MHz

### 5. Selected EQ band

The sum of all ticked  EQ band in the PEQ setting section.

### 6. Maximum number of band supported by EQ

PCM 44.1kHz ~192kHz: 10 band

PCM 352.8kHz ~768kHz and DSD: None

Note: PEQ supports up to PCM 192kHz/32bit

### 7. EQ of the unit is on/off

If the unit is disconnected, it will not show the EQ on / off status of the unit.

If the unit is connected, "On" means EQ is turned on at the unit and "Off" means EQ is not turned on at the unit.