

Macchiato 平衡/单端解码耳放
4.4mm Balanced/3.5mm Single-ended USB DAC & AMP

包装配件

Macchiato, Type-C to Type-C连接线, 简易说明书/保修卡。

数据指标

DAC芯片: 两片CS43131
PCM: 32bit/384kHz
DSD: 最高Native DSD256x
重量: 21.6g
尺寸: 49.6mm*27.6mm*12.9mm

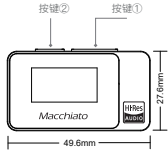


图1

4.4mm平衡输出:

THD+N: -118dB@1kHz 300ohm Load
-105dB@1kHz 32ohm Load

输出电压: 5Vrms
输出功率: 580mW+580mW@32Ω
信噪比: 131dB
动态范围: 132dB
输出阻抗: <0.05Ω
分离度: 145dB
频率响应: 5Hz-80kHz -0.5dB

3.5mm单端输出:

THD+N: -115dB@1kHz 300ohm Load
输出电压: 2.5Vrms
输出功率: 195mW+195mW@32Ω
信噪比: 127dB
动态范围: 128dB

输出阻抗: <0.05Ω
分离度: 136dB
频率响应: 5Hz-80kHz -0.5dB

主要特点

- 采用两颗Cirrus Logic旗舰解码DAC芯片CS43131
- 580mW+580mW@32Ω大推力
- OLED显示屏
- 可换线设计
- 按键操作快速完成设置及音量调整
- 铝合金CNC机身, 两侧钢化玻璃面板
- 配套安卓APK, 支持音量调节、滤波选择、声道平衡调节等功能
- 飞秒晶振, 降低相位抖动, 时钟更精准
- 支持PCM最高32bit/384kHz
- 支持Native DSD最高256x
- 3.5mm立体声输出, 4.4mm平衡输出
- 支持麦克风, 可通话
- 可以作为USB解码耳放供安卓手机、苹果手机、平板电脑, 以及MAC、Windows、Linux平台电脑使用

操作介绍

1. Macchiato UI指示 (图2)
2. 连接成功后播放音乐时, 主界面显示当前播放的音乐采样率
3. Macchiato 按键指示 (图1)
点击 [按键②] 打开或关闭OLED屏幕
在灭屏或主界面点击 [按键①] 可调整音量
屏幕亮起后长按 [按键②] 进入功能选择菜单

选择菜单里点击 [按键②] 可浏览选项
点击 [按键①] 可更改设置, 设置自动保存

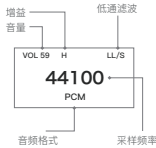


图2

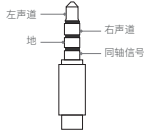


图3

4. 可以通过选择DAC的低通滤波调整音色。

以下为低通滤波对应的全称:

Fast: 高速滚降滤波器
Slow: 慢速滚降滤波器
LL/F: 低延时高速滚降滤波器
LL/S: 低延时慢速滚降滤波器
NOS: 非过采样

5. 动态加强 (DRE)
DRE启用时可以提高SNR/DNR, 但可能出现多音异常问题 (不影响听感)。
DRE关闭时底噪可能稍微变大, SNR/DNR指标少量下降, 但不存在多音异常的问题。
DRE选择优化时, 解决多音异常问题, 在0~-44dB输出时底噪与DRE关闭时相同, 小于-44dB的输出时DRE开启, 底噪降低。

6. DAC模拟供电
Class H: DAC模拟电源会根据信号幅度在±1.8V和±3.0V之间动态调整, 以节省功耗。
Class AB: DAC模拟电源工作在±3.0V。
7. 当选择SPDIF输出时, 3.5mm输出口支持最高32bit/384kHz同轴输出。(图3) 是3.5插头的同轴定义。
8. Macchiato在Android5.1以上系统的安卓设备上即插即用 (受设备系统或者硬件影响, 在极少数安卓设备上可能存在兼容性异)。某些型号的安卓设备, 可能需要手动在系统设置里打开OTG功能。
9. 如果您希望在安卓手机上实现功能设置, 可安装iBasso UAC APK。
10. Macchiato支持UAC1.0及UAC2.0标准。在苹果系统及Windows系统可实现即插即用。
10. 切换至UAC1.0时, 玛奇朵支持UAC1.0设备。可连接游戏机等设备使用, 如Switch2、PS5。
11. Macchiato无内置电池, 工作时通过USB接口取电, 只消耗手机少量电量。由于采用专业音频架构, Macchiato在使用时可能产生一定热量, 属正常情况, 请放心使用。

保修说明

产品自购买之日起一年内(不包含配件)提供保修服务。
如因使用不当(拆装、进水、未按照说明使用等因素)造成的损坏, 由于可能存在无法修复的风险, iBasso Audio有权拒绝服务。
请务必妥善保管保修卡, iBasso Audio将以此卡为保修依据。

序列号:

日期、经销商印章或提供购买凭证:

保修卡

Macchiato 平衡/单端解码耳放

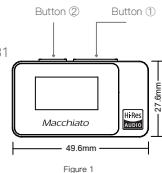
4.4mm Balanced/3.5mm Single-ended USB DAC & AMP

Package Components

Macchiato, Type-C to Type-Cable, User manual/ Warranty card.

Specifications

DAC Chipset: Dual Cirrus Logic CS43131
PCM: Up to 32bit/384kHz
DSD: Native DSD 256x
Weight: 21.6g
Size : 49.6mm*27.6mm*12.9mm



4.4mm Balanced Output:

THD+N: -118dB@1kHz 300ohm Load
-105dB@1kHz 32ohm Load

Output Voltage: 5Vrms
Output Power: 580mW+580mW@32Ω
S/N: 131dB

Dynamic Range: 132dB
Output Impedance: <0.05Ω
Crosstalk: 145dB
Frequency Response: 5Hz-80kHz -0.5dB

3.5mm Single-ended Output:

THD+N: -115dB@1kHz 300ohm Load
Output Voltage: 2.5Vrms
Output Power: 195mW+195mW@32Ω
S/N: 127dB
Dynamic Range: 128dB
Output Impedance: <0.05Ω

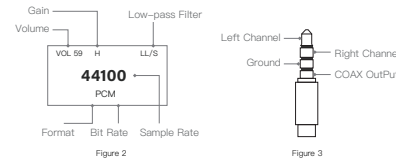
Crosstalk: 136dB
Frequency Response: 5Hz-80kHz -0.5dB

Main Features

- Dual Cirrus Logic CS43131 Master HiFi™ DAC Chips.
- 580mW+580mW@32ohm output power.
- OLED Screen.
- Button operation quickly completes settings and volume adjustment.
- Detachable cable design.
- Aluminum CNC case with tempered glass panels on both sides.
- Dedicated UAC APP for Android devices, which allows adjustment of volume, channel balance, and digital filters.
- Femtosecond oscillator.
- Support of PCM up to 32bit/384kHz.
- Support of Native DSD up to 256x.
- Support of 3.5mm microphone and 3.5mm IEM with inline microphone.
- 4.4mm balanced output and 3.5mm single-ended output.
- Works as a USB-DAC for Android smartphones & tablets, Mac, Windows, & Linux computers.
- Support of UAC1.0 and UAC2.0.

Operation Introductions

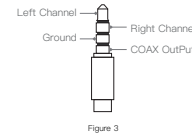
1. Macchiato UI introduction (Figure 2).
2. When playing music after connected to a master device, the screen displays the current music sample rate.
3. Press the [Button ②] to turn on or turn off the OLED screen. (Figure 1)
When the screen is off or on the home screen, Press the [Button 1] to adjust the volume.
When the screen is on, press and hold the [Button ②] to enter the settings menu. Press the [Button ②] in the settings menu to browse the settings.
Press the [Button ①] to change settings, settings will be automatically saved.



4. You can adjust sound signature by selecting the DAC's low pass filter.

Fast: First roll-off filter
Slow: Slow roll-off filter
LL/F: Short delay fast roll-off filter
LL/S: Short delay slow roll-off filter
NOS: Non-oversampling

5. DRE (Dynamic Range Enhancement):
When DRE is enabled, it can improve SNR/DNR, but may cause multi-tone anomalies (which do not affect the listening experience). When DRE is disabled, the noise floor may slightly increase, and the SNR/DNR may decrease slightly, but there are no multi-tone anomalies.
When DRE is set to optimized mode, it resolves the multi-tone anomaly issue. The noise floor at output levels from 0 to -44dB is the same as when DRE is off. For outputs below -44dB, DRE is enabled, resulting in reduced noise floor.
6. DAC Analog Power Supply:
Class H: The DAC analog power supply dynamically adjusts between ±1.8V and ±3.0V based on signal amplitude to save power.
Class AB: The DAC analog power supply operates at ±3.0V.



7. When SPDIF output is selected, the 3.5mm outputs coaxial digital signal, which is up to 32bit/384kHz. (Figure 2) shows the coaxial configuration of the 3.5 plug.
8. Macchiato can be plug-and-play on smartphones and tablets with Android 5.1 and above (due to the Android device's system or hardware limitation, there may be a low compatibility issue with some smartphones or tablets). On Some Android devices, it may be necessary to manually turn on the OTG function in the system settings.
9. Please install iBasso UAC APP if changing settings on an Android device is needed.
10. Macchiato supports UAC1.0 and UAC2.0 standards. It is plug-and-play compatible with both Mac and Windows computers.
11. After switched to UAC1.0, Macchiato can be used with UAC1.0 devices, such as Switch2 and PS5.
12. There is no built-in battery so the Macchiato receives its power through the USB interface from the master device. The actual power consumption is related to the operation and the device System (music resolution, volume and load being driven). Due to the professional audio architecture, it is normal for the Macchiato to get warm during use.

Warranty Terms

iBasso products are warranted to be free from malfunctions and defects in both materials and workmanship for one year from date of purchase, excluding the accessories, buyer must

retain the warranty card, which will be requested at the time of warranty repair.

This warranty does not apply when failure is due to accident, alteration, water damage, misuse, use with incompatible accessories or attachments or failure to follow operating instructions.

At iBasso we always do our utmost to take care of your needs.

Warranty Card	Serial No:
	Date, Stamp, and the signature of the authorized official dealer: