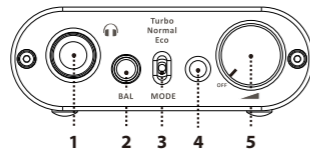


ifi

IDSD DIABLO



1. Single-ended 6.3mm output

Connection for 6.3 single ended headphones. Please use 3.5 to 6.3 mm adaptor for 3.5 single ended headphones.

2. Balanced 4.4mm analogue output

Connect balanced 4.4mm headphones.

Tip: As iDSD Diablo is balanced, we recommend the 4.4mm output.

3. Power Mode

There are 3 different types of power output levels to drive different headphones from the ultra-sensitive in-ear monitors to the most demanding over-ear headphones.

Approximate listening time (in Battery mode with typical headphones):

Eco up to a maximum of 12 hours (10)

Normal up to a maximum of 9 hours (8)

Turbo up to a maximum 6 hours (4)

4. Audio Format LED (kHz)

The LED colour scheme indicates the audio format and sampling frequency received by the iDSD Diablo from the music source.

LED	Mode
Green	PCM 44/48/88/96kHz
Yellow	PCM 176/192/352/384kHz
White	PCM 768kHz
Cyan	DSD64/DSD128
Blue	DSD256
Red	DSD512
Magenta	MQA

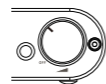
5. ON/OFF and Analogue Volume Control

The analogue volume control in iDSD Diablo is superior to any digital volume control.

Warning: Due to the high power of iDSD Diablo, always start off at a low volume level so that there is no risk of damage to your headphones or your hearing. iFi audio is not responsible for any hearing or equipment damage from misuse.

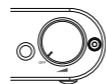
Power ON.

Step 1



Power OFF.

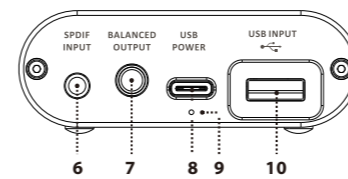
Step 2



Tip: For Apple iOS and Android devices, please use battery power, otherwise you may receive error messages from your device.

Tip: For connection to Apple devices, an Apple Lightning to a USB Camera Adapter is required. For connection to Android devices, a USB On-The-Go (OTG) cable and appropriate OS support are required.

For more information, please refer to www.ifi-audio.com.



6. S/PDIF 3.5mm Coaxial/Optical input

When USB is not used, connect to a Coaxial/Optical cable (through a Toslink Mini-Plug).

Tip: a Toslink Mini-Plug to Toslink adaptor is included for connecting a Toslink optical cable.

Tip: The SPDIF standard supports PCM only up to 192kHz.

7. Balanced 4.4mm fixed analogue output

This is an analogue output via 4.4mm > XLR or other balanced interconnects. You could use this for an active speaker or an amplifier.

Warning: Do not insert 4.4mm headphones to this source as the full volume is likely to damage your headphones or your hearing.

8. USB-C (5V) battery charge input

For charging only. Due to the very high-power nature of iDSD Diablo, it will take ~12 hours and ~6 hours for a standard and high-powered (the enclosed super-silent iPower 5V) charger respectively to fully recharge the iDSD Diablo.

9. LED for Battery Status

LED	Status
White*	> 75%
Green*	> 25%
Red*	> 10%
Red (flashing)	≤ 10%

**Battery LED will flash when it is charging.*

10. USB3.0 'Type A' input port

For data transfer only. Connect your phone to the iDSD Diablo with a Lightning to a USB Camera Adapter (Apple) or USB On-The-Go (OTG) cable (Android). When using other audio sources, please connect with a USB cable.

Tip: It is preferable to use a USB 3.0 over using a USB 2.0 port on the PC.

Tip: The iDSD Diablo comes with a pre-installed firmware v5.30 optimised for MQA. This version also handles up to PCM384/DSD256.

Tip: For firmware optimised to run PCM768/DSD512(non-MQA) please install firmware v5.20.

Tip: For all downloads: www.ifi-audio.com/downloads/

Technologies

- Octa-DSD512/PCM768 and 2X DXD.
- Native DSD/PCM Burr-Brown* chipset.
- Fully balanced 4.4mm output.
- Performance boosting Direct-Drive* and Headamp Turbo*.
- Zero Jitter/Femto clock system upgraded for lower phase-noise/jitter*.
- Digital engine upgraded with iFi custom ultra-low noise Op-Amp Ov2028*.
- Analogue section upgraded with iFi custom ultra-low noise Op-Amp Ov2627*.
- Ultra-low impedance OS-CON polymer capacitors and Panasonic audio-grade ECPU film capacitors*.
- Ultra-low noise iPower 5V power supply*.

*Diablo edition

Specifications

Digital Inputs: USB 3.0 type 'A' (USB2.0 compatible)/ S-PDIF (3.5mm coaxial/optical)

Formats supported: DSD512/256/128/64, Octa/Quad/Double/Single-Speed DSD DXD (768/705.6/384/352.8kHz), Double/Single-Speed DXD PCM (768/705.6/384/352.8/192/176.4/96/88.2/48/44.1kHz) MQA

Frequency Response: 10Hz-80kHz(-3dB)

SNR:
Balanced: -120dB
S-E: -114dB

Dynamic range:
Balanced: -120dB
S-E: -114dB

THD + N:
Balanced: 0.002%
S-E: 0.001%

Headphone Max Output:
Balanced: >19.2V/611 mW (@ 600 Ohm)
>12.6V/4,980 mW (@ 32 Ohm)
S-E: >9.6V/153 mW (@ 600 Ohm)
>8.8V/2,417 mW (@ 32 Ohm)

Filters:
DSD Extreme/Extended/Standard Bandwidth
PCM Bit-Perfect/Minimum-Phase/Standard
DXD Bit-Perfect Processing

Fixed Audio Output: Balanced 4.4mm

Power consumption:
Turbo: 12W
Normal: 5W
Eco: 2W

Battery: Lithium-polymer 4800mAh

Power System: Charging via USB-C (iFi iPower included)
BC V1.2 compliant up to 1900mA charging current

Dimensions: 166 x 72 x 25 mm
6.5" x 2.8" x 1.0"

Weight: 330g (0.73 lbs)

Warranty period: 12 months

*Specifications are subject to change without notice.