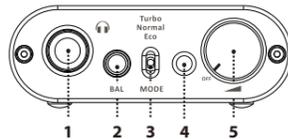


# ifi

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

### 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.

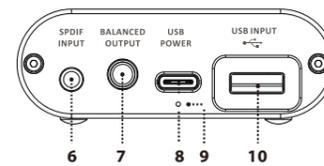
Step 2



*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](http://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/](http://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 ECU film capacitors\*.
- Ultra-low noise iPower 5V power supply\*.

### 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)

**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.*