iFi micro

iDSD USB

1. Combo SPDIF Coaxial/ Optical Input and Output
The Combo SPDIF socket is auto-switching.

With USB audio signal applied:
- SPDIF Output: Coaxial

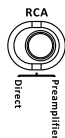Without USB audio signal applied:
- SPDIF Input: Coaxial/Optical (Toslink Mini-Plug) Input

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

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

2. RCA Line Output
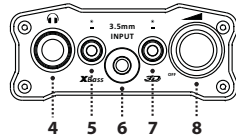To amplifier, receiver, HiFi system or similar. See Section12 for details.

Tip: on the underside, it is possible to select "Direct" or "Pre-Amplifier" mode. In the Pre-Amplifier mode, the iDSD functions as a DAC/pre-amplifier (only make the selection with the unit powered off).

3. USB Input
From a computer, connect via USB cable (this also provides charging for the internal battery.)
From a Smart Device, such as iPhone use a Camera Connection Kit/ Lighting-to-USB Camera Adapter.

Tip: To use the micro iDSD in Battery Power mode, power on the micro iDSD BEFORE connection to the PC otherwise the iDSD will run in USB Power mode.

Tip: The USB input is specially designed so that it can be directly connected to an Apple Camera Connection Kit/Lighting-to-USB Camera Adapter or Android OTG without the use of any adaptor.

4. Headphone jack 6.3mm
Connect headphones.

Tip: With a new pair of IEMs/Headphones, ALWAYS start with the volume no higher than 9 o'clock and with the Power Mode set to "Eco."

5. Xbass®
XBass® was uniquely-designed to extend bass response to suit different headphones.
- ● For bass shy headphones.
- − Direct.

6. Input 3.5mm
From a music source with 3.5mm connection for feeding a direct audio signal (e.g. 3.5mm output from an iPhone.)

7. 3D HolographicSound®
- ● ON
- − OFF

3D HolographicSound® for Headphones: recreates a holographic sound field like listening to a pair of speakers.
- − This is activated when a 6.3mm headphone has been inserted.

3D HolographicSound® for Speakers: puts the bass frequencies back outside of the speakers, in-line with the treble and mid-range.
- − This is activated when no 6.3mm headphone plug has been inserted.

Tip: These two analogue signal processing systems (3D HolographicSound® for Headphones and 3D HolographicSound® for Speakers) are distinctly different and designed for their respective types of audio output.
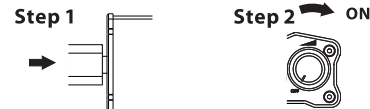

Tip: Sonically-hindering DSP is NOT used for XBass nor 3D HolographicSound® systems. They use the highest-quality discrete components and operate purely in the analogue domain. Hence all the clarity and resolution of the original music is retained.

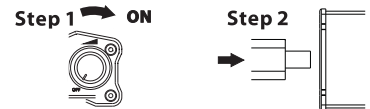### 8. Analogue Volume Control
Power on/off and volume control.

USB Power
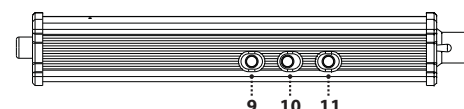Connect to the computer first, and then turn ON the power.

Step 1 → Step 2 ➡ ON

Battery Power
Turn ON the power first, and then connect to the computer.

Step 1 ➡ ON Step 2

Tip: Under Battery Power mode, the micro iDSD will continue to use battery power even if the USB cable is connected afterwards.

Tip: For Apple iPhone/ iPad/iPod Touch, Android devices, please use Battery Power, otherwise you may receive error messages from your device.

Tip: For connection to Apple devices, the Apple USB Camera Adapter is required. For connection to Android devices, an OTG cable and appropriate OS support are required. For more information, please refer to www.ifi-audio.com.

9. Power Mode
There are 3 different types of power output levels to drive different head phones from the most sensitive In-Ear-Monitors(IEMs) through to the most demanding over-the-ear headphones.

Approximate listening time (in Battery mode with typical headphones)

Eco = for high-sensitivity IEMs (Default, ~14 hours).
Normal = for medium-sensitivity headphones (~10 hours).
Turbo = for the most-demanding headphones (~6 hours).

Tip: See section 12. For how Power mode is used in conjunction with Direct/Preamplifier mode.

WARNING: when first starting out, do not set the volume control higher than 9 o'clock and only in "Eco" mode as the headphone amplifier of the iDSD is exceptionally powerful. iFi is not responsible for any headphone/hearing damage arising from incorrect use.

10. Polarity
Adjustable signal polarity of music playback. For a digital signal source only (ie. not for an analogue signal via the 3.5mm input.)
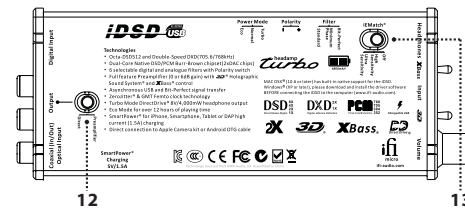
11. Digital Filter
The following are user-selectable:

DSD: Extreme/Extended/ Standard Range (analogue) filters
PCM: Bit-Perfect/Minimum-Phase/Standard (digital) filters
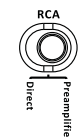DXD: Bit-Perfect Processing (fixed) analogue filter

Tip: For PCM we recommend "Bit-Perfect" for listening and "Standard" for measurements. For DSD, select Extreme/Extended/Standard to find the one that sounds best for listening and "Standard Range" for measurements.

12. Line Direct/Preamplifier Mode
Direct: fixed RCA output (bypass, FULL volume)
Preamplifier: the iDSD functions as a DAC/preamplifier. The volume control is now enabled for the RCA line output and when used in conjunction with the Power Mode offers gain of:
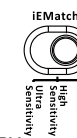

Eco = 0 dB
Normal/Turbo = 6dB

Tip: Only make the selection with the unit powered off.

13. iEMatch switch
With the iEMatch, even the most sensitive In-Ear-Monitors (IEMs) can be matched to the iDSD.

Off
High Sensitivity: For High Sensitivity IEMs.
Ultra Sensitivity: For Ultra Sensitivity IEMs.

14. SmartPower®
The USB type "B" port located to the side is able to recharge a Smart device. SmartPower® will automatically detect an iPhone/Android or similar and commence charging. However, the micro iDSD must be switched OFF as it cannot charge and playback music simultaneously.

Tip: Any USB connected device can be recharged but with larger devices such as tablets, the SmartPower battery will charge, but will be rapidly drained. Hence, it is not recommended for such applications

Tip: MAC OSX (10.6 or later) has built-in native support for the iDAC.

Tip: MS Windows (XP or later), please download and install the driver software BEFORE connecting the iDAC to the computer (www.ifi-audio.com).

Tip: For the best sound quality, always set the volume control on the computer and the playback software to 100%.

LED

Power ON:

LED Color	Mode
Magenta	DSD512 22.5/24.5MHz
Blue	DSD256 11.2/12.2MHz
Cyan	DSD128/DSD64 2.8/3.1/5.6/6.2MHz
White	DXD705/768kHz
Yellow	176/192kHz DXD352/384kHz
Green	44/48/88/96kHz
Green(Flashing)	Awaiting USB Connection
Red	Battery Low
None	Battery Empty

Power OFF:

LED Color	Mode
Blue*	Charging

When the iDSD is fully-charged, the Blue LED will no longer be lit.

Specifications
- 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)
- Filters:
  DSD - Extreme/Extended/Standard Bandwidth
  PCM - Bit-Perfect/Minimum-Phase/Standard
- Digital Inputs:
  High-Speed Asynchronous USB 2.0 (32bit/768kHz)
  SPDIF Coaxial/Optical
- Digital Output: SPDIF Coaxial
- Audio Input: 3.5mm
- Audio Output:
  6.3mm
  RCA Line out (2V fixed/2V-5V variable)
- Power Output:
  Turbo (8.0V max/4,000 mW @ 16 Ohm)
  Normal (4.0V/1,000 mW @ 16 Ohm)
  Eco (2.0V/250mW@16 Ohm)
- Battery: Lithium-polymer 4800mAh
- Power System: USB BCP V1.2 compliant up to 1500mA charging current
- Power (max): <2W idle, 4W max
- Dimensions: 177(l) x 67(w) x 28(h) mm
- Weight: 310g (0.68 lbs)
- Warranty period:12 months

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iFi warranty

Terms & Conditions