iFi
x series
xDSD


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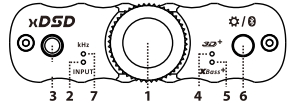
1. ON/OFF, Analogue Volume Rotary with LED

Power ON (with mode selection): Press and hold the rotary knob until LEDs light up. The LEDs (rotary knob, kHz & INPUT) on the front faceplate will light-up corresponding to the last mode used. Either release for last mode or keep the rotary knob pushed in to cycle through the two modes. Release to accept that mode.

LED	Mode
Green	Wired (USB or S/PDIF)
Blue	Wireless (Bluetooth)

The xDSD allows you to cycle through the selections twice (approx. 20 seconds) before powering off.

Power OFF: Push and HOLD the rotary knob for several seconds until all the LEDs change to White then release to power off.

Wired/Wireless mode switching: The xDSD must be switched off to allow mode selection after powering on. See Power ON (with mode selection).

Mute: Press the rotary knob to mute. To unmute press it again OR turn the rotary to unmute.

Rotary knob/Volume:

LED	Volume	
Red	-9 to 0 dB	(100%-91%)
Yellow	-27 to -10 dB	(90%-73%)
Green	-45 to -28 dB	(72%-55%)
Cyan	-63 to -46 dB	(54%-37%)
Magenta	-81 to -64 dB	(36%-19%)
Blue	-101 to -82 dB	(18%-0%)
Off	Mute	
White	Line Output mode (2V)	

Note: The xDSD does not use a digital volume control. Instead, it has a pure analogue volume control system. For the maximum sound quality when using a digital source, place that device at full volume (100% or bypass) so that the volume is controlled only by the xDSD.

Note: When there is no music signal, the system will go into mute and hence the volume LED will be off. This is normal.

2. INPUT LED

LED	INPUT
White	USB
Green	S/PDIF
Blue	Wireless Bluetooth (Connected)
Blue (flashing)	Wireless Bluetooth (Awaiting connection)
Blue/Red (flashing)	Wireless Bluetooth (Pairing)

Wired Mode (USB or S/PDIF)
The selection between USB and S/PDIF is done automatically. The USB signal input has priority over S/PDIF.

S/PDIF: To enter S/PDIF mode, please make sure that there is no USB signal on the USB input.

Wireless Mode (Bluetooth)
The xDSD is able to store up to 8 paired Bluetooth devices.

From switch on, if the xDSD is in Wireless mode (Blue) it will 'blink' blue as it searches for 15 seconds for a previously paired device. If a stored device is not found, it will automatically enter pairing mode (INPUT: Blue/Red blinking).

A new Bluetooth device can be 'force paired' by pressing the 'Settings' button (✿/ ₿) for 3 seconds.

3. S-Balanced headphone 3.5mm/Line Output

Headphone Mode
This is a dual-mono headphone amplifier section with S-Balanced 3.5mm TRRS/TRS connection. This special headphone circuit is of most benefit to 'Balanced' headphones, but also elevates the performance of 'non-balanced' headphones.

Line Output Mode
The same 3.5mm jack can be used as a fixed-level line out with all headphone specific sonic controls disabled and volume control bypassed.

Turning the volume will have no effect. The 3.5mm output when in Line Output mode is 2V.

Warning: In Line Output mode, do NOT have headphones inserted as damage to product/hearing may ensue. As the xDSD retains the last mode on next power on, it will revert back to Line Output mode if that was the last mode used.

Enabling Line-Output: When the unit is OFF, HOLD the 'Settings' button (✿/ ₿) THEN press the rotary to switch ON. Once the xDSD powers up, release the rotary whilst still holding the 'Settings' button (✿/ ₿) for 3 seconds. Once released, the rotary LED should indicate White.

Disabling Line-Output: Turn the unit off and HOLD the 'Settings' button (✿/ ₿) THEN press the rotary to switch ON. Once the xDSD has powered-up, keep the rotary pushed in to cycle as per normal through the two modes and release to select the desired mode. The Line-Output mode deactivation will be disabled by the rotary being blank (ie: not lit White).

4. 3D+® Matrix LED

3D+® Matrix (on/off) recreates a holographic sound field like listening to a pair of speakers. It is a pure analogue signal processing circuit.

5. XBass+® LED

XBass+® (On/Off) was uniquely designed to extend bass response to suit different headphones. It is a pure analogue signal circuit.

Tip: Sonically-hindering DSP is NOT used for XBass+® nor 3D+® Matrix 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 fully retained.

6. Settings ✿/ ₿

This button cycles between:

Off

3D+®

XBass+®

XBass+® & 3D+®

Pairing (Bluetooth, Hold)

7. Audio Format LED (kHz)

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

LED	Mode
Green	PCM 44/48/88/96kHz
Yellow	PCM 176/384kHz
White	PCM 768kHz
Cyan	DSD64/DSD128
Blue	DSD256
Red	DSD512
Magenta	MQA
Off	No valid Signal


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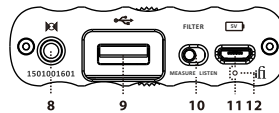
8. S/PDIF Input

USB signal detection always has priority over S/PDIF. To use the xDSD in S/PDIF mode, please make sure there is no USB signal on the USB Input.

9. USB Input Type A

For mobile devices, one must use the correct Apple (Lightning-to-USB Adapter) or Android (USB OTG) cable (both not included) to connect directly to the xDSD. Ordinary 'charging' cables cannot be used.

For connection to a computer, use the enclosed USB3.0 cable for a superior connection (over USB2.0).

10. Digital Filter

Different digital filters are available for PCM & DSD. For listening enjoyment, we recommend the transient optimized minimum-phase 'Listen' filter but feel free to choose the frequency response optimised 'Measure' filter.

11. Micro USB charge por

The micro USB port is ONLY for charging (it does not perform any other function).

When the xDSD is off and a 5V USB power supply is detected, the LED will change colour to show the various states of charge (see next section).

We advise to charge the xDSD switched off.

It is possible to charge the xDSD and listen to music at the same time, but it may take longer to be fully-charged, depending on volume level and headphones used.

Further, if the most demanding headphones are used, the battery may take even longer to fully-charge.

The xDSD may be slightly warm to touch when it is simultaneously in use and being charged.

12. LED for Battery Status

LED	Status
White*	≥ 75%
Green*	74%-25%
Red*	24%-10%
Red (flashing)	< 10%

*Battery LED will flash when it is charging

With IEMs, a fully-charged battery offers approx 6-8 hours of music enjoyment.

It is pre-installed with firmware v5.30 which has been optimised for MQA. This version also handles up to PCM384/DSD256.

For firmware optimised to run PCM768/DSD5 12(non-MQA) please install firmware v5.20.

For all downloads: www. ifi-audio.com

Specifications

USB Input:	up to PCM768kHz & DSD512 (24.6/22.6MHz)
S/PDIF Coaxial and Optical Inputs:	up to 192kHz/24Bit
Dynamic Range:	> 113dB (A)
Volume Control:	-101dB...0dB in 1dB steps
Output power:	> 2.82V/500 mW @ 16 Ohm
	> 3.7V/270mW @ 50 Ohm
	> 3.8V/48 mW @ 300 Ohm
	> 3.8V/24 mW @ 600 Ohm
Line out Level:	> 2.1V @ 0dBFS (& 0dB Volume)
THD &N (1V/16R):	< 0.005%
Output Impedance:	< 1
Battery:	3.8V/2200mAh
Dimensions:	95 (l) x66.5 (w) x19 (h) mm
Weight:	127g (0.28 lbs)
Warranty period:	12 months

Specifications are subject to change without notice.

iFi
warranty

In order to activate the warranty for this iFi product, you must register with the iFi website.

Component :

Serial no:

Terms and Conditions

iFi guarantees that this iFi product shall be free from defects in materials and workmanship for a period of 1 year for parts and labour.

The warranty period begins at the date of retail sale by an authorized iFi distributor/dealer and is subject to the following requirements and understandings:

• It is the responsibility of the buyer within 30 days from the original sale, to register and activate the product warranty with the iFi website.

• The original invoice must be produced for authentication prior to any warranty claim.

• The iFi product must not have been modified in any manner whatsoever, or the warranty will immediately become void.

• The iFi warranty is only valid in the country of original sale and is not transferable.

• The product must not have been stored in a humid environment; nor subjected to weather, water, or saltwater spray.

• iFi shall not, under any circumstances, be liable for any incidental or consequential damages arising from the loss of property or other damage or losses due to the failure of an iFi product. iFi is not liable for loss of use or inconvenience caused by the failure of an iFi product. iFi is not liable for damage caused to other audio components because of the failure of an iFi product.

• During the warranty period, iFi will repair the product to working order, or, at iFi's discretion, replace the defective module with a similar available product.

• All repairs performed after expiry of the warranty period will be charged to the owner and will carry a 180-day warranty on parts and labour. The customer is responsible for shipping the unit to the iFi distributor in the original packaging. This includes the payment of any shipping charges and related taxes.

• Should any warranty issues arise, iFi's decision is full and final.