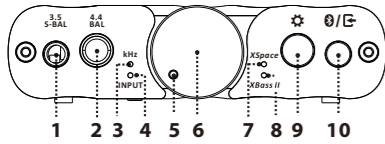


# ifi

## XDSD

### GRYPHON



#### 1. S-Balanced 3.5mm headphone output

Connect 3.5mm headphones. Compatible with both TRS and TRRS connectors.

#### 2. Balanced 4.4mm headphone output

Connect balanced 4.4mm Pentaconn headphones.

#### 3. Audio Format LED (kHz)

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

LED	Mode
Yellow	PCM 48/44.1kHz
White	PCM 768/705.6/384/352.8/192/176.4/96/88.2kHz
Cyan	DSD 128/64
Red	DSD 512/256
Green	MQA
Blue	MQA Studio
Magenta	Original Sample Rate*
*MQB	

#### 4. INPUT LED

LED	INPUT
Magenta	USB
Blue	Bluetooth
Green	S/PDIF
Yellow	Line (Balanced 4.4mm/S-E 3.5mm)

#### 5. Volume LED

The LED colour scheme indicates the current volume level.

LED	Volume
Blue	Mute to 21
Magenta	22 to 41
Cyan	42 to 61
Green	62 to 79
Yellow	80 to 97
Red	98 to 106

#### 6. Multi-function knob

Controls:

- Power ON/OFF (long press 3s)
- Analogue volume control (turn)
- Pause/play (short press once)\*
- Previous song (press three times briefly)\*
- Next song (press twice briefly)\*
- Menu settings (long press item 9 Settings button (1s). Control menu refer to item 9)

\*Only valid in USB/Bluetooth input mode

#### Power ON/OFF

Long press the power switch to power on/off.

#### Analogue volume control

Warning: Due to the high power of xDSD Gryphon, always start at a low volume level, so 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.

#### Menu settings

##### I) Digital filter

The following 3 digital filters are available:

- 'BP' Bit-Perfect, no digital filtering
- 'GTO' Upsampled to 384/352kHz, minimum filtering, no pre-ringing, minimum post ringing
- 'STD' Modest filtering, modest pre and post ringing

##### II) Screen Brightness

**Off** Sleep mode. If no operation is performed within 10 seconds, the display will turn off.

**High** High brightness mode. If no operation is performed within 10 minutes, the display will dim to low brightness.

**Low** Low brightness mode. The display brightness always remains low.

##### III) Volume Limiter

- Off** Volume max 106, short press once in Mute mode, volume jumps to 79
- 95%** Volume max. 100, short press once in Mute mode to 75
- 80%** Volume max. 86, one short press in Mute mode to 64
- 60%** Volume max. 66, one short press in Mute mode to 49

##### IV) Volume Sync

Turns the volume sync on / off. It is on by default.

##### V) Volume Soft Ramp

Turns the volume gradient on / off (the volume ladder changes for 2S). It is on by default.

##### VI) BT voice prompt

ON/OFF mode, turn on/off Bluetooth voice announcement.

##### VII) USB dual port charge (Item 15. USB-C input)

'ON', this port can be used for charging.

'OFF', this port is for signal input only.

##### VIII) Factory Reset

Select Yes to perform a factory reset, the device reboots after a successful operation.

Warning: Factory reset will erase all remembered Bluetooth addresses; digital filtering default STD; Bluetooth voice announcement On; The default screen brightness is High; the default USB charging is Off; the default volume is -21dB; the default factory reset is NO.

#### 7. XSpace Matrix LED

The XSpace Matrix(on/off) recreates a holographic sound field. It is a pure analogue signal processing circuit designed for listening to headphones as if one was listening to speakers. This addresses the 'music inside the head' sensation, which makes for uneasy listening.

#### 8. XBass II LED

XBass II is an analogue circuit designed to 'add back' the lost bass response for more accurate reproduction of the original music.

Tip: Sonically-hindering DSP is NOT used for XBass II nor XSpace 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 retained.

#### 9. Settings

Cycles between:

Off > XBass II > XSpace > XBass II and XSpace (short press)

Menu settings (long press)/Return to Home (short press)

#### 10. Input selector/Bluetooth pairing

This button cycles between the following inputs:

USB > Bluetooth > S/PDIF > Line (Balanced 4.4mm/S-E 3.5mm)

Note: Please select the input channel according to your audio source input mode. For example, you need to switch the input channel to 'USB' when using the USB input.

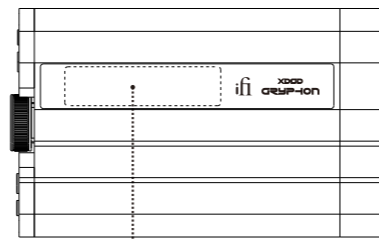
The xDSD Gryphon receives Bluetooth signals via aptX, aptX HD, aptX Adaptive, aptX LL, LDAC, LHDC/HWA, AAC and SBC.

#### Bluetooth pairing

When the Bluetooth input is selected, the Bluetooth icon in the display will flash and search for a previously paired device. If a stored device is not found, it will automatically enter pairing mode and flash.

Press and hold the button (1s) to enter pairing mode until the Bluetooth icon flashes. To pair, find the 'iFi Hi-Res Audio' Bluetooth device from the nearby devices list on your phone.

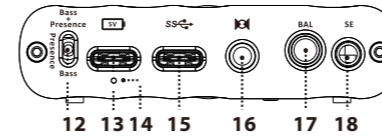
The xDSD Gryphon can store up to 8 paired Bluetooth devices.



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#### 11. OLED display

The OLED display shows the audio format, sampling rate, volume, input mode, XSpace/XBass II and battery level.



#### 12. XBass II mode adjustment

Research into headphone frequency response showed that a purely flat response may not be correct. Our long present XBass fits the profile of the low-frequency correction required. However, it was also shown that a certain amount of upper midrange boost is needed to give many headphones a more 'natural' sound.

This upper midrange region is usually called the 'presence' region; we have used this term to indicate the upper midrange correction. In the xDSD Gryphon, XBass II (or perhaps better HP-EQ) can be selected to have either Bass + Presence correction, only Bass or only Presence correction.

#### 13. USB-C (5V) charging input

For charging only. Due to the very high-power nature of xDSD Gryphon, it will take ~12 hours and ~6 hours for a standard and high-powered charger, respectively, to fully recharge.

Tip: When the xDSD Gryphon 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).

Tip: We advise you to charge the xDSD Gryphon switched off. You can listen to music while charging, but it may take longer to be fully charged, depending on the volume level and the headphones used.

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

#### 14. LED for Battery Status

LED Status

Green\* > 85%

Yellow\* ≤ 85%

Red (flashing) ≤ 10%

\*The battery status LED will flash during charging, and the LED will go out when fully charged.

#### 15. USB-C input

Connect your phone to the xDSD Gryphon with a Lightning to USB Camera Adapter (Apple) or USB On-The-Go (OTG) cable (Android). When using other audio sources, please connect with a USB cable. This USB-C port is intended for data transfer only, but it can also be configured to charge the battery. Please see item 6 - Menu settings, (VII).

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

Note: For use with PC it is necessary to download drivers.

Tip: For the required driver and all the latest firmware updates please refer to our website: [www.ifi-audio.com/download-hub/](http://www.ifi-audio.com/download-hub/)

#### 16. S/PDIF 3.5mm Coaxial/Optical input

When USB-C (item 15) is not used, connect to a Coaxial/Optical cable (through a Toslink Mini-Plug).

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

#### 17. Balanced 4.4mm line input/output

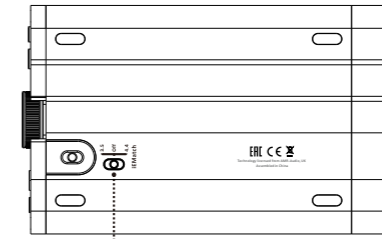
a) Output (variable) - when the input mode is USB, Bluetooth or S/PDIF

b) Input - when the input mode is Line

#### 18. Single-ended 3.5mm input/output

a) Output (variable) - when the input mode is USB, Bluetooth or S/PDIF

b) Input - when the input mode is Line



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#### 19. iEMatch switch

iEMatch reduces the output level, so that even the most sensitive In-Ear-Monitors (IEMs) can be matched to the xDSD Gryphon.

iEMatch 3.5	= 3.5mm headphones
off	= off
iEMatch 4.4	= 4.4mm headphone

Tip: The xDSD Gryphon or the headphone will not be damaged if the iEMatch switch is adjusted incorrectly, but the attenuation level will not be correct.

#### Specifications

**Inputs:** USB-C  
Bluetooth 5.1™ (aptX, aptX HD, aptX Adaptive, aptX LL, LDAC, LHDC/HWA, AAC and SBC Codec)  
S-PDIF 3.5mm Coaxial  
Balanced 4.4mm  
Single-Ended 3.5mm

**Formats:**  
DSD DSD512/256/128/64, Octa/Quad/Double/Single-Speed  
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 Full Decoder  
Bluetooth Up to 96kHz  
DAC: Bit-Perfect DSD & DXD DAC by Burr Brown

#### Line Section

**Outputs:**  
Balanced: 6.7V max. (variable)  
UnBAL: 3.5V max. (variable)

#### Output Impedance:

Balanced: ≤200Ω  
UnBAL: ≤100Ω

#### SNR:

Balanced: <110dB(A) @ 0dBFS  
UnBAL: <110dB(A) @ 0dBFS

#### THD+N:

Balanced: <0.007% @ 0dBFS  
UnBAL: <0.015% @ 0dBFS

#### Headphone Section

**Outputs:**  
Balanced: 6.7V max. @ 600Ω  
UnBAL: 3.5V max. @ 600Ω

#### Output Power:

Balanced: >1000mW @ 32Ω; >74mW @ 600Ω  
UnBAL: >320mW @ 32Ω; >40mW @ 300Ω

#### Output Impedance:

Balanced: <1Ω  
UnBAL: <1Ω

#### THD+N:

<0.005% (1V @ 16Ω)

#### SNR:

Balanced: <116dB(A) @ 0dBFS  
UnBAL: <115dB(A) @ 0dBFS

#### Battery:

Lithium-polymer 3600mAh  
Power System: Charging via USB-C, BC V1.2 compliant up to 1900mA charging current

#### Dimensions:

123 x 75 x 19 mm  
4.8" x 3.0" x 0.7"

#### Net weight:

215 g (0.5 lbs)

#### Warranty period:

12 months

\*Specifications are subject to change without notice.