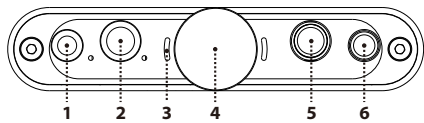


# ifi

## hip dac 3



### 1. PowerMatch (on/off)

PowerMatch enables hip dac 3 to match headphones' impedance and sensitivity in order to generate their highest operational efficiency.

*Tip: For in-ear-monitors (earbuds) try PowerMatch off. For headphones try PowerMatch on. When on, the gain increases by 10dB. If your IEMs are very sensitive, try using the iEMatch feature (item 7).*

### 2. XBass (on/off)

Many headphones lack the correct bass response. XBass is an analogue circuit designed to 'add back' the lost bass response for a more accurate reproduction of the original music.

### 3. Audio Format LED (kHz)

The LED colour scheme indicates the audio format and sampling frequency received by hip dac 3 from the music source.

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

*Warning: Installing GTO enabled firmware may result in the LED's on this device no longer changing in accordance with the above table*

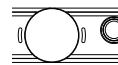
### 4. ON/OFF and Analogue Volume Control

The analogue volume control in hip dac 3 is superior to any digital volume control.

*Warning: Due to the high power of hip dac 3, always start off at a low volume level so that there is no risk of damage to your headphones and your hearing. iFi audio is not responsible for any hearing or equipment damage from misuse.*

#### Power ON.

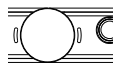
#### Step 1 ON



*Tip: hip dac 3 will continue to use battery power even if the USB cable is connected afterwards.*

#### Power OFF.

#### Step 2 OFF



*Tip: For connection to Apple devices, Apple Lightning to USB Camera Adapter is required. For connection to Android devices, USB-C to USB-C cable and appropriate OS support are required.*

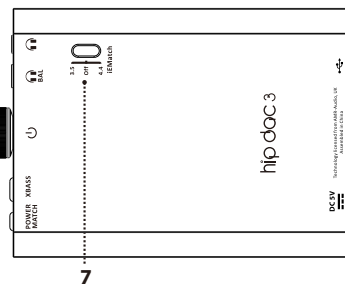
*For more information, please refer to [www.ifi-audio.com](http://www.ifi-audio.com)*

### 5. Balanced 4.4mm headphone output

Connect balanced 4.4mm headphones.

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

Connect 3.5mm headphones.

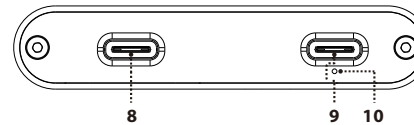


### 7. iEMatch switch

iEMatch reduces the output level, so that even the most sensitive In-Ear-Monitors (IEMs) can be matched to the hip dac 3.

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

*Tip: The hip dac 3 or the headphone will not be damaged if the iEMatch switch is adjusted incorrectly, but the attenuation level will not be correct.*



### 8. USB-C data input port

Connect your phone to the hip dac 3 with a Lightning to USB Camera Adapter (Apple) or USB-C to USB-C cable (Android). When using other audio sources, please connect with a USB cable. This USB-C port is intended for data transfer only.

*Tip: For Apple iOS and Android devices, please use battery power on the hip dac 3, 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/)*

### 9. USB-C (5V) battery charge input

For charging only. It will take ~3 hours for a high-powered USB charger to fully charge hip dac 3. Use the enclosed USB 'Type A' to 'Type C' cable, smart charger or a regular charger up to 6.3V.

### 10. LED for Battery Status

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

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

### SPECIFICATIONS

**Input:** USB-C  
**Formats supported:** DSD256 / 11.3MHz  
 PCM 384kHz  
 full MQA Decoder  
 Bit-Perfect DSD & DXD DAC by Burr Brown

**DAC:**  
**Headphone Outputs:**  
 Balanced 4.4mm  
 S-BAL 3.5mm

**Power Output:**  
 Balanced 400mW @ 32Ω; 6.3V @ 600Ω  
 S-BAL 280mW @ 32Ω; 3.2V @ 600Ω

**Output Impedance:**  
 Balanced ≤1Ω, With iEMatch engaged: ≤4.5Ω  
 S-BAL ≤1Ω, With iEMatch engaged: ≤4.5Ω

**SNR:**  
 Balanced ≥109dB(A) @ 0dBFS  
 S-BAL ≥103dB(A) @ 0dBFS

**DNR:**  
 Balanced ≥109dB(A)  
 S-BAL ≥103dB(A)

**THD + N:**  
 Balanced <0.006% (360mW/2.0V @ 600Ω)  
 S-BAL <0.01% (100mW/1.27V @ 16Ω)

**Frequency Response:** 20Hz - 45kHz (-3dB)  
**Power Consumption:** <2W idle, 4W max  
**Battery:** Lithium-polymer 2200mAh approx.  
 8 hours

**Power System:** Charging via USB-C, BC V1.2 compliant up to 1000mA charging current

**Dimensions:** 102 x 70 x 14 mm (4.0" x 2.8" x 0.6")

**Net weight:** 135 g (0.30 lbs)

**Limited Warranty:** 12 months\*

\*12 months typical or as permitted/required by local reseller laws.

\*\*Specifications are subject to change without notice.