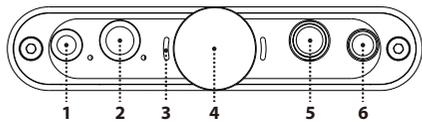


# ifi hip-dac



## 1. PowerMatch (on/off)

PowerMatch enables hip-dac 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.*

## 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 from the music source.

LED	Mode
Green	44/48/88/96kHz
Yellow	176/192kHz DXD352/384kHz
Cyan	DSD128/DSD64 2.8/3.1/5.6/6.2MHz
Blue	DSD256 11.2/12.2MHz
Magenta	MQA
Off	No valid signal

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

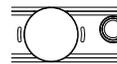
## 4. ON/OFF and Analogue Volume Control

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

*Warning: Due to the high power of hip-dac, 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.*

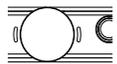
### Power ON.

#### Step 1 ON



### Power OFF.

#### Step 2 OFF



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

*Tip: For connection to Apple devices, Apple Lightning to USB Camera Adapter is required. For connection to Android devices, USB On-The-Go (OTG) cable and appropriate OS support are required.*

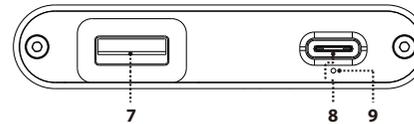
*For more information, please refer to [www.ifi-audio.com](http://www.ifi-audio.com).*

## 5. Balanced 4.4mm headphone output

Connect balanced 4.4mm headphones.

## 6. Single-ended 3.5mm headphone output

Connect single-ended 3.5mm headphones.



## 7. USB3.0 'Type A' data input port

Connect your phone to hip-dac with Lightning to USB Camera Adapter (Apple) or USB On-The-Go (OTG) cable (Android). When using other audio sources connect with a USB cable.

*Tip: It is preferable to use a USB 3.0 port over using a USB 2.0 port on the PC.*

## 8. 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. Use the enclosed USB 'Type A' to 'Type C' cable, smart charger or a regular charger up to 6.3V.

## 9. LED for Battery Status

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

\*Battery LED will flash when it is charging

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

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

*Tip: For all downloads: [www.ifi-audio.com](http://www.ifi-audio.com)*

## Specifications

<b>Formats supported:</b>	DSD256/128/64, Quad/Double/Single-Speed DSD DXD(384/352.8kHz) PCM(384/352.8/192/176.4/96/88.2/48/44.1kHz) MQA
<b>Digital Input:</b>	USB 3.0 type 'A' High-Speed Asynchronous USB 2.0 (32bit/384kHz)
<b>Headphone Outputs:</b>	Balanced: 4.4mm S-Balanced(S-E): 3.5mm
<b>Power Output:</b>	Balanced: 400mW@32Ω; 6.3V@600Ω S-Balanced(S-E): 280mW@32Ω; 3.2V@600Ω
<b>Battery:</b>	Lithium-polymer 2200mAh approx. 8 hours
<b>Power System:</b>	Charging via USB-C BC V1.2 compliant up to 1000mA charging current
<b>Power (max):</b>	<2W idle, 4W max
<b>Dimensions:</b>	102 x 70 x 14 mm 4.0" x 2.8" x 0.6"
<b>Weight:</b>	125 g (0.28 lbs)
<b>Warranty period:</b>	12 months

Specifications are subject to change without notice.