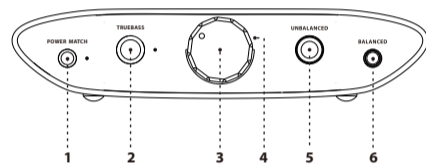


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ZEN DAC



Thank you for purchasing the DAC from ZEN series. The DAC is a balanced USB-audio DAC amplifier.

1. PowerMatch (high/low)

The PowerMatch setting should be on low for IEMs and on high for on/over headphones.

Warning: Due to the high power of ZEN DAC, before changing the PowerMatch setting, always start off at a low volume level so that there is no risk of damage to your headphones, speakers and your hearing. iFi audio is not responsible for any hearing or equipment damage from misuse.

2. TrueBass® (high/low)

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

Tip: IEMs usually sound better with TrueBass set high. They lack bass due to their small driver size. Adjust to suit your personal preference.

3. Analogue Volume control

The analogue volume control in ZEN DAC is superior to any digital volume control. It can be used to control the headphone volume or the pre-amplifier volume (when set to 'Variable'). If the output at the rear is set to 'Fixed', then the volume control is bypassed.

4. Audio Format LED (kHz)

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

LED	Mode
Green	PCM 44/48/88/96kHz
Yellow	PCM 176/192/353/384kHz
Cyan	DSD64/DSD128
Blue	DSD256
Magenta	MQA

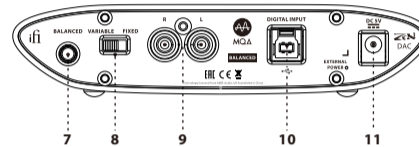
5. Single-Ended 6.3mm output

Connect single-ended 6.3mm headphones. When using single-ended 3.5mm headphones connect with 3.5mm Stereo Jack to ¼" (6.3mm) Stereo Audio Adapter.

6. Balanced 4.4mm analogue output

Connect balanced 4.4mm headphones.

Tip: As ZEN DAC is balanced, we recommend the 4.4mm output.



7. Balanced 4.4mm analogue output

This is an analogue output via 4.4mm > XLR or other balanced interconnects. You could use this for an active speaker or an amplifier.

Tip: As ZEN DAC is balanced, this is the recommended output.

8. Variable/Fixed switch

When the rear UnBAL/BAL analogue outputs are used, this switch will determine whether or not ZEN DAC analogue volume control is used.

9. RCA analogue output

This is an analogue output.

10. USB-audio and power input

This is a USB input. It connects ZEN DAC to computer audio source and provides power supply.

11. DC 5V power

ZEN DAC is powered by 5 volts - connect ZEN DAC to the enclosed 5V USB power supply.

Tip: For best performance upgrade the power supply to a super-low noise power adapter such as iFi iPower or iPower X.

Specification

Input:	USB3.0 B Socket (USB2.0 compatible)
Formats:	44.1/48/88.2/96/176.4/192kHz PCM 2.8/3.1/5.6/6.2/11.2/12.4MHz DSD 353/384kHz DXD
DAC:	Bit-Perfect DSD & DXD DAC by Burr Brown
Line Section	
Output:	Audio RCA (UnBAL) 2.1V fixed 1V / 3.3V max. (variable) 4.4mm Pentaconn (BAL) 4.2V fixed 2V / 6.2V max. (variable)
Zout:	<= 100 Ohm (UnBAL) <= 200 Ohm (BAL)
SNR:	<-116dB(A) @ 0dBFS (UnBAL/BAL)
DNR:	>116dB(A) @ -60dBFS (UnBAL/BAL)
THD+N:	<0.0015% @ 0dBFS (UnBAL/BAL)

Headphone Section

Output:	6.3mm (UnBAL) 1V / 3.3V max. 12 Ohm - 300 Ohm Headphone 4.4mm Pentaconn (BAL) 2V / 6.2V max. 12 Ohm - 600 Ohm Headphone
Output Power:	UnBAL >280mW @ 32R; >36mW @ 300R BAL >380mW @ 50R; >70mW @ 600R
Output Impedance:	<1 Ω (UnBAL/BAL)
THD & N:	<0.005% (125mW @ 32R)
SNR:	>113dBA (3.3V UnBAL / 6.2V BAL)
Power consumption:	No Signal ~0.5W Max Signal ~2.5W
Dimensions:	117(l) x 100(w) x 30(h)mm
Weight:	491g (1.08 lbs)
Warranty period:	12 months

Specifications are subject to change without notice.