

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

1. Analogue Volume control

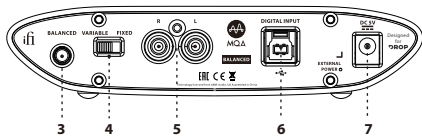
The analogue volume control in the ZEN DAC Signature is superior to any digital volume control. It can be used to control the headphone volume or the pre-amplifier volume (when set to 'Variable'). If the output at the rear is set to 'Fixed' the volume control is bypassed.

2. Audio Format LED (kHz)

The LED colour scheme indicates the audio format and sampling frequency received by the ZEN DAC Signature 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*

*MQA
The iFi ZEN DAC Signature includes MQA Renderer technology, which can connect to an MQA Core signal and complete the final unfold of an MQA file. The LED glows magenta to indicate that the unit is rendering an MQA stream or file. This delivers the final unfold of the MQA file.



3. 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 the ZEN DAC Signature is balanced, this is the recommended output.

4. Variable/Fixed switch

This switch will determine whether or not the ZEN DAC Signature analogue volume control is used.

5. RCA analogue output

This is an analogue output.

6. USB-audio and power input

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

7. DC 5V power

Please connect the ZEN DAC Signature to the enclosed power supply, the super-silent iPower X. The ZEN DAC Signature must ONLY be powered by 5 volts.

Tip: It is pre-installed with firmware 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 corresponding firmware.

Tip: For all latest firmware updates please refer to our website here: www.ifi-audio.com/downloads

Specification

Input voltage:	DC 5V/2.5A AC 100 - 240V, 50/60Hz (iFi iPower X included)
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 MQA
DAC:	Bit-Perfect DSD & DXD DAC by Burr Brown

Line Section

Output:		
Balanced 4.4mm:	2V / 6.2V max. (variable)	4.2V fixed
UnBAL RCA:	1V / 3.3V max. (variable)	2.1V fixed
Zout:		
Balanced:	<= 200 Ohm	
UnBAL:	<= 100 Ohm	
SNR:	<-116dB(A) @ 0dBFS (UnBAL/BAL)	
DNR:	>116dB(A) @ -60dBFS (UnBAL/BAL)	
THD+N:	<0.0015% @ 0dBFS (UnBAL/BAL)	
Power consumption:	No Signal ~0.5W Max Signal ~2.5W	

Dimensions: 158 x 117 x 35 mm
6.2" x 4.6" x 1.4"

Net weight: 505 g (1.11 lbs)

Warranty period: 12 months

Specifications are subject to change without notice.