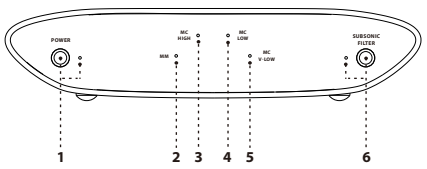
ZEN Phono



Thank you for purchasing the Phono from the ZEN series. The Phono is a balanced MM/MC phono stage.

1. Power ON/OFF

This is the power switch.

Note: If the unit is turned on for a while, you need to shut off the unit twice to turn it off. It only happens if the unit is on for a while. This is because the MCU will have switched out of the signal path so you get to enjoy the best sonics!

2. MM input LED

This is a MM input suitable for MM cartridges with the output voltage higher than 2mV. Please select Gain 1 at the rear.

3. MC HIGH input LED

This is a MC HIGH input suitable for MC cartridges with the output voltage less than or equal to 2mV. Please select Gain 2 at the rear.

4. MC LOW input LED

This is a MC LOW input suitable for MC cartridges with the output voltage less than or equal to 0.5mV. Please select Gain 3 at the rear.

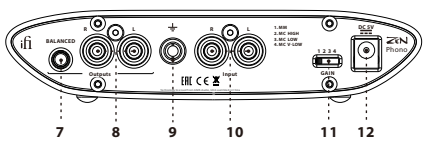
5. MC V-LOW input LED

This is a MC V-LOW input suitable for MC cartridges with the output voltage less than or equal to 0.25mV. Please select Gain 4 at the rear.

6. SUBSONIC Filter ON/OFF

This is the SUBSONIC filter switch.

The iFi-designed subsonic filter will intelligently detect whether a subsonic frequency is a warp or a bass note. It will eliminate the warps and let all the bass and mid-range frequencies pass through untouched. Therefore, it will not affect the sound quality.



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 Phono is balanced, this is the recommended output.

8. RCA analogue output

This is an analogue output.

9. Ground

This is the ZEN Phono's ground, please connect it to the turntable's grounding wire.

10. RCA analogue input

This is an analogue input.

11. Gain channel switch

This button cycles between 4 gain levels:

1. corresponds to MM (>2mV)
2. corresponds to MC HIGH (≤2mV)
3. corresponds to MC LOW (≤0.5mV)
4. corresponds to MC V-LOW (≤0.25mV)

Please adjust the gain channel switch in accordance with your preference and your turntable's specifications.

12. DC 5V power

Please connect the ZEN Phono to the enclosed power supply. The ZEN Phono must ONLY be powered by 5 volts.

For best performance upgrade the enclosed power supply to a super-silent iPower 5V or the ultra-low noise iPower X 5V power supply.

Specification

Input voltage:	DC 5V/0.5A, AC 100 -240V, 50/60Hz (with the enclosed power supply)	
Frequency Response:		
Balanced:	20Hz - 20kHz (±0.15dB)	
S-E:	10Hz - 100kHz (±0.4dB)	
Channel Separation:	> 75dB (1kHz all modes)	
Max Output Voltage RMS:		
Balanced:	13.5V RMS 600R (<1% THD & N)	
S-E:	6.5V RMS 600R (<1% THD & N)	
Output Impedance:		
Balanced:	200 Ohm	
S-E:	100 Ohm	
SNR:		
MM (36dB ±1dB):	96dB (A-weighted) re 2V BAL/1V S-E	
MC High (48dB ±1dB):	84dB (A-weighted) re 2V BAL/1V S-E	
MC Low (60dB ±1dB):	90dB (A-weighted) re 2V BAL/1V S-E	
MC V-Low (72dB ±1dB):	79dB (A-weighted) re 2V BAL/1V S-E	
Ein (equivalent input noise):		
0.6nV | /Hz (unweighted)	MC Low/MC V-Low	-151dBV (A-weighted)
6.5nV | /Hz (unweighted)	MM/MC High	-130dBV (A-weighted)
Total Harmonic Distortion:		
MM:	<-110dB / 0.0003% re 2V BAL/1V S-E	
MC Low:	<-80dB / 0.01% re 2V BAL/1V S-E	
MC V-Low:	<-86dB / 0.005% re 2V BAL/1V S-E	
Power consumption:	<1.8W	
Dimensions:	158 x 117 x 35 mm 6.2" x 4.6" x 1.4"	
Weight:	500 g (1.10 lbs)	
Warranty period:	12 months	

Specifications are subject to change without notice.