



ifi

iDSD Diablo Lowdown



IDSD **DIABLO**

DEVILISHLY GOOD SOUND

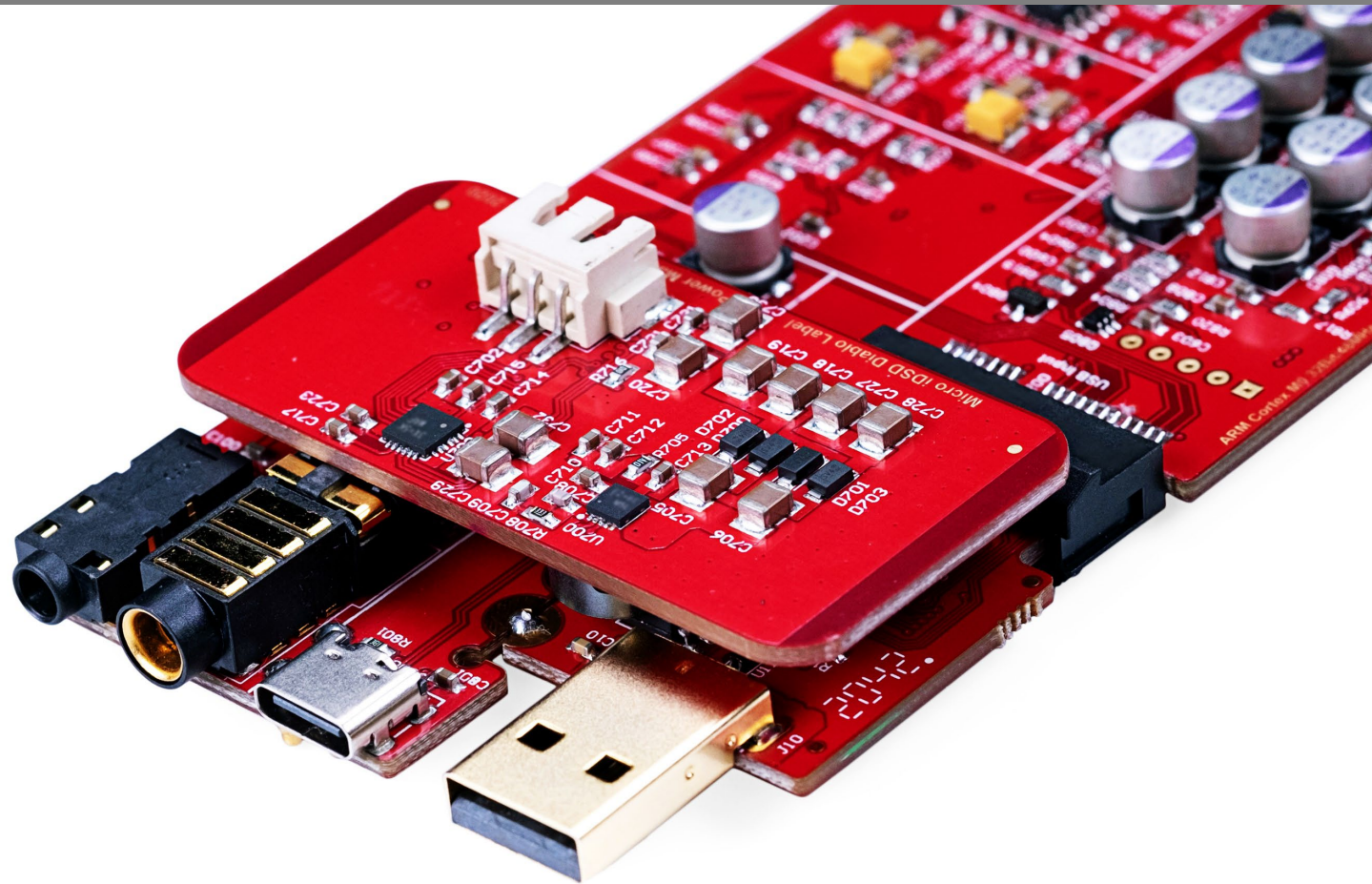
- Mobile reference DAC / head amp
- Purist sound
- Fully balanced 4.4mm outputs with 4,100mW
- Devilishly deep bass reproduction and unbelievable resolution
- New PureWave ultra-low THD circuit design - THD 0.002% (BAL), 0.001% (SE)



HI-RES USB DAC / HEAD AMP

Dual Core DSD/PCM Burr Brown chipset provides Bit-Perfect:

- PCM - 48/44.1, 96/88.2, 192/176, 384/352.8, 768/705.6kHz
- DSD - 128/64 , 512/256
Single-Speed DSD/Double/Quad/Octa
- DXD - 384/352.8, 768/705.6kHz
Single-Speed DXD/Double
- MQA Decoder



FEATURES

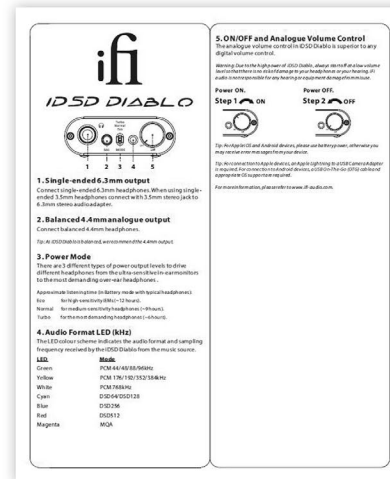


- Fully balanced 4.4mm output
- Performance boosting Direct Drive and Headamp Turbo
- Zero Jitter / Femto clock system upgraded for lower phase noise/jitter
- Digital engine upgraded with iFi custom ultra-low noise Op-Amp Ov2028
- Analogue section upgraded with iFi custom ultra-low noise Op-Amp Ov2627
- Ultra-low impedance OS-CON polymer capacitors and Panasonic audio-grade ECPU film capacitors

ACCESSORIES

Comes with the following all packed in the new iTraveller carry case:

- Square to round fibre conversion head
- USB3.0 cable
- USB-Type A to Type-C cable
- 6.35mm to 3.5mm converter
- 5.5* 2.1 female to Type-C power cable
- 4.4mm to Twin XLR cable
- iPower 5v
- iPower's accessories
- *iPurifier3-A Type C - Specially included for the first production run only!*



IDSD DIABLO



SPECIAL CIRCUIT DESIGN & COMPONENTS

PREMIUM AUDIOPHILE GRADE



Panasonic EPCU
Panasonic film capacitors



Precision analogue volume control



Low Jitter GMT clock system



Low noise/distortion OV2627 (0.0001%) and OV2028
Performance equals/surpasses many high-end headphone amplifiers



Computer-matched pair complementary planar
Ultra-low noise bi-polar input transistors



Tantalum Polymer Capor ultra-low noise/ distortion

Balanced



Balanced circuit



Murata Low-ESR high Q multilayer capacitor



Burr-Brown Products
from Texas Instruments

Burr-Brown Native DSD DAC



Vishay MELF resistors – precise, costly but superior



Advanced trench technology MOSFET



Excellent noise reduction capability and frequency characteristics



X.MOS 16-Core controller with iFi optimised firmware



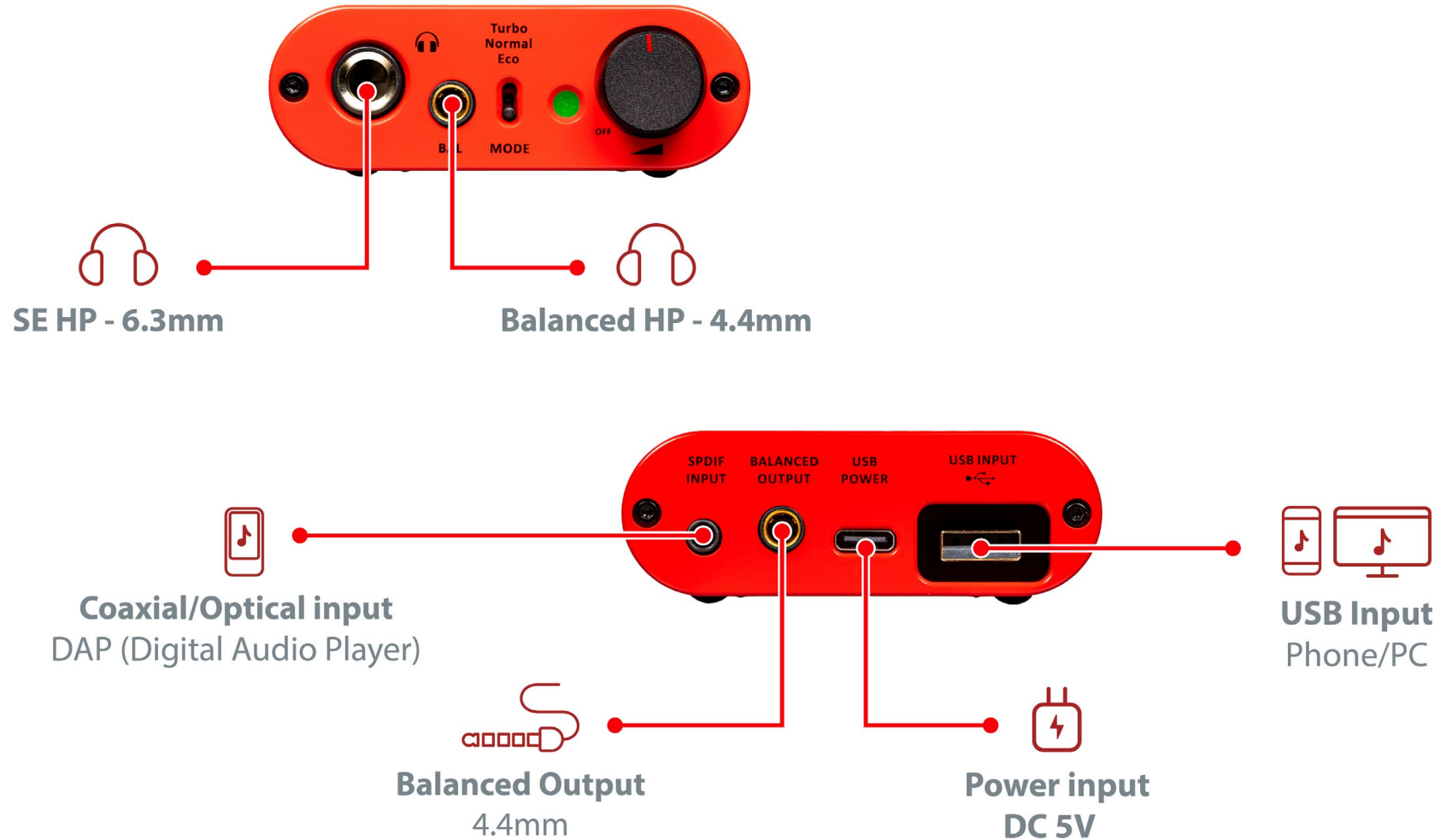
Precision low-noise power supply



For audio use with extremely low distortion



CONNECTION



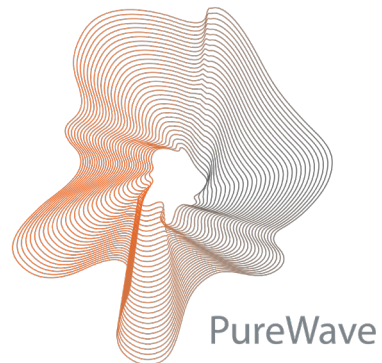
SPECIAL TECH



OptimaLoop | NEGATIVE FEEDBACK THAT'S PURELY POSITIVE

'Negative feedback' is used in amplifier circuits to compare the output signal with the input signal and correct errors, in order to control gain and reduce distortion. For sound quality, this is positive; but commonly applied, one-size-fits-all 'global negative feedback' can highlight different problems whilst solving others – corruption of the error signal, phase shifts, group delay and so on can all have a negative impact on sound quality.

Recognising that different parts of a circuit benefit from specifically optimised feedback loops, iFi has developed a negative feedback system that is much more accurate than the usual approach. This incorporates multiple feedback paths instead of a global loop, each path optimised for a particular function and working synergistically with the others to deliver optimal overall performance. iFi calls this new configuration OptimaLoop.



PureWave | BALANCED CIRCUIT DESIGN FOR THE PUREST SOUND

Balanced, differential analogue circuit design has long been championed for its ability to reduce noise and cross-talk within the signal path by fully separating the left and right channels. The iDSD Diablo benefits from further refinement of

balanced, symmetrical dual-mono topologies with short, direct signal paths. iFi calls this circuit concept 'PureWave', referring to the sonic purity it achieves thanks to exceptional linearity and infinitesimally low levels of noise and distortion.

SPECIFICATIONS

Digital Inputs	USB 3.0 type 'A' (USB2.0 compatible)/S/PDIF (3.5mm coaxial/optical)		
Formats	PCM - 768/705.6, 384/352.8, 192/176, 96/88.2, 48/44.1kHz DSD - 512/256, 128/64 - Octa/Quad/Double/Single-Speed DSD DXD - 768/705.6, 384/352.8kHz - Double/Single-Speed DXD MQA		
SNR:		THD+N:	
Balanced:	120dB	Balanced:	0.002%
SE:	114dB	SE:	0.001%
Dynamic range:		POWER CONSUMPTION:	
Balanced:	120dB	Turbo:	12W
SE:	114dB	Normal:	5W
		Eco:	2W

SPECIFICATIONS

HEADPHONE MAX OUTPUT POWER:	
Balanced:	> 19.2V/611 mW (@600 Ohm)
	> 12.6V/4,980 mW (@ 32 Ohm)
SE:	> 9.6V/153 mW (@600 Ohm)
	> 8.5V/2,417 mW (@320hm)
Frequency Response:	10Hz-80kHz (-3dB)
Audio Output:	Balanced 4.4mm
Battery:	Lithium-polymer 4800mAh

POWER SYSTEM:	
Charging via USB-C (iFi iPower included)	
BC V1.2 compliant up to 1900mA charging current	
Dimensions:	
166x72x25mm	
6.5"x2.8"x1.0"	
Net Weight:	330g (0,73 lbs)
Warranty period:	12 months

ABOUT iFi

iFi audio is part of AGL and is headquartered in Southport, UK. It owns the hifi brand Abbingdon Music Research (AMR). They respectively design and manufacture portable and desktop 'ultra-fidelity' audio products and high-end audio 'home-based' components. The combined in-house hardware and software development team enables iFi audio and AMR to bring to market advanced audio products.

For further information, please contact
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A vibrant, multi-colored powder explosion background. The colors include bright yellow, orange, red, pink, purple, and blue, all radiating from a central point. The text 'ifn' is centered in a white, serif font.

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