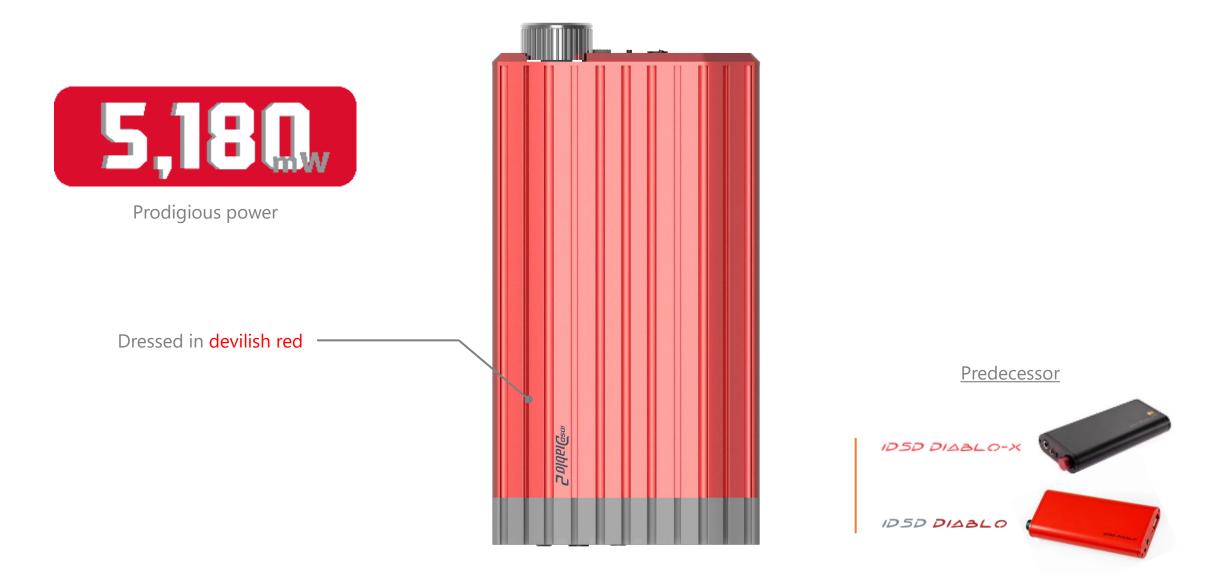


Heavenly Sound. Devilish Power.



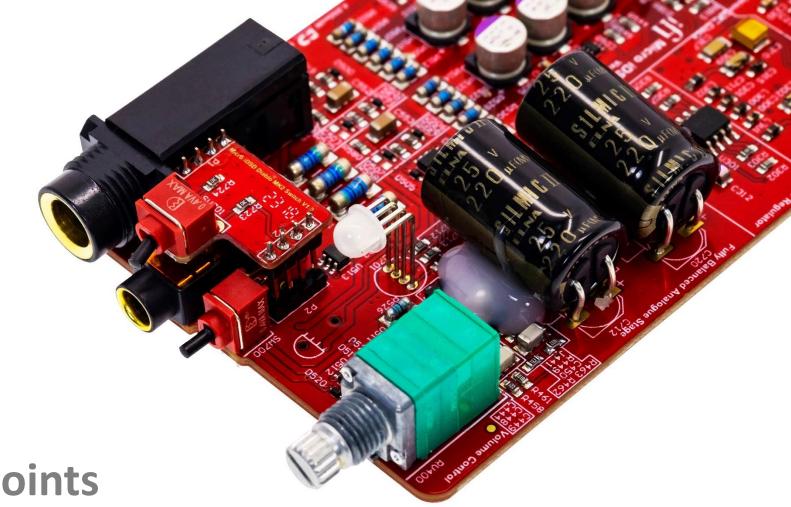
Transportable or Desktop. It delivers.

Meet the ultimate solution for audiophiles needing separate systems for **home** and **mobile** use: the **iDSD Diablo 2**.

With a powerful **5,180mW** headphone output, it has **more power** than many desktop DAC/AMP setups.







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Unique Selling Points



Key Features





Normal, Turbo and Nitro: 3 gain modes



Optimising output for highsensitivity headphones/IEMs



Balanced, symmetrical dualmono topologies

Delivers up to **5,180mW** of prodigious power



World's first Lossless Bluetooth portable DAC/AMP

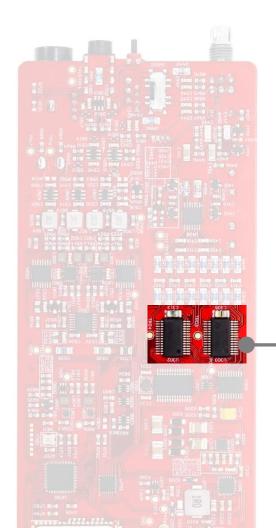
Qualcomm[®] aptX[®] Lossless

X

Compatible with **xMEMS** microspeaker technology



Support Every Bluetooth Codec* and Music Format





Bluetooth 5.4[™] - Supports new **aptX Lossless**. The only Bluetooth codec capable of streaming lossless CD-quality audio.

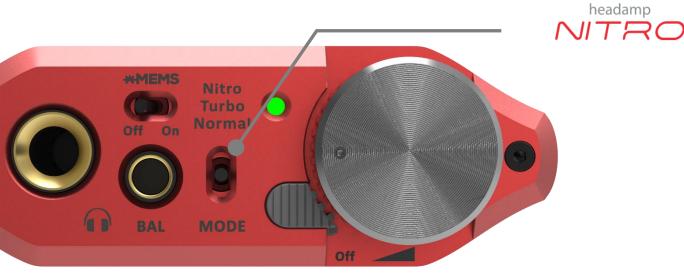


Hi-res support: **PCM** 768kHz; **DSD**512 (22.6MHz); Full **MQA** decoding.



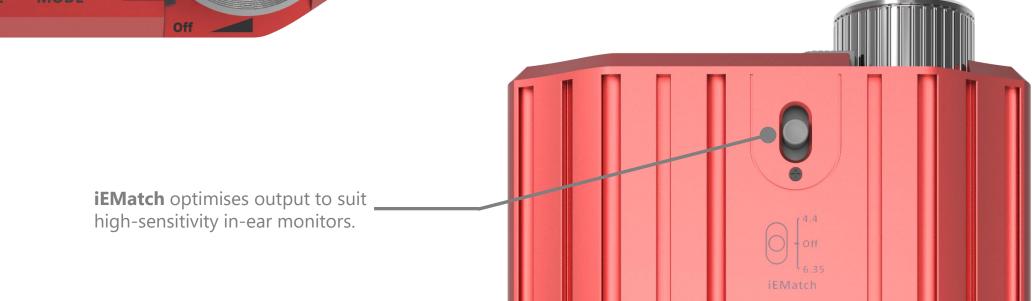
Dual-core DAC design enables true-native DSD and PCM.

Got power-hungry headphones? Hit Nitro.



Three power modes:

Nitro for demanding headphones with a 19.2V max output **Turbo** for mid-sensitivity headphones, **Normal** for IEMs



Next-gen ++MEMS headphone driver technology compatible.

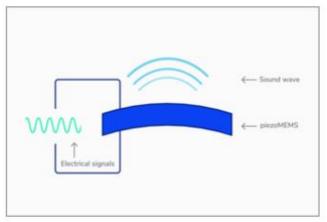


Image sourced from xmems.com

Custom bias, EQ and amp circuits for xMEMS

Piezoelectric effect for paper-thin **solid-state speakers**

Enhances IEM and headphone performance

150x faster than a typical dynamic driver



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Upgraded Features and Functionality



iDSD Diablo 2 vs. Diablo Looks





iDSD Diablo 2 vs. Diablo Looks





iDSD Diablo 2 vs. Diablo Looks



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New **iEMatch** optimises output to suit high-sensitivity in-ear monitors.



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Spec comparison



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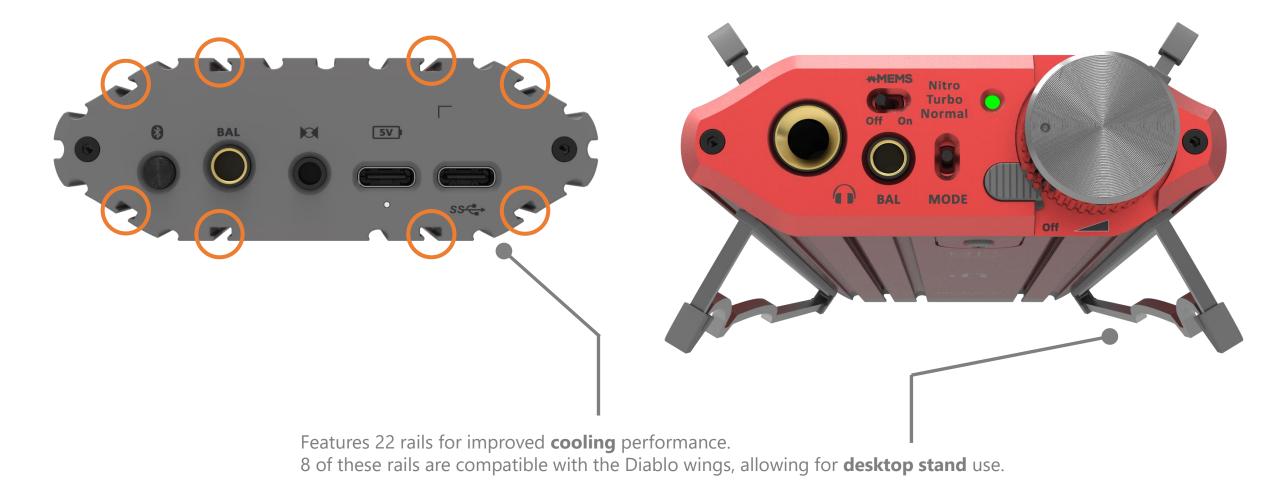
	iDSD Diablo 2	iDSD Diablo-X	iDSD Diablo
Digital Input	USB-C 3.0; S-PDIF (3.5mm coaxial/optical)	USB 3.0 type 'A' (USB2.0 compatible); S-PDIF (3.5mm coaxial/optical)	USB 3.0 type 'A' (USB2.0 compatible) S-PDIF (3.5mm coaxial/optical)
Bluetooth formats	aptX Lossless, aptX Adaptive, aptX, LDAC, LHDC/HWA, AAC, SBC	N/A	N/A
Output power - 4.4mm	>19.2V/611mW (@600Ω); >12.87V/5180mW (@32Ω)	>19.2V/611 mW (@ 600 Ω) >12.6V/4,980 mW (@ 32 Ω)	>19.2V/611 mW (@ 600 Ohnn) >12.6V/4,980 mW (@ 32 Ohm)
Output power - 6.3mm	>9.6V/153mW (@600Ω); > <mark>8.85V/2450mW</mark> (@32Ω)	>9.6V/153 mW (@ 600 Ω) >8.8V/2,417 mW (@ 32 Ω)	>9.6V/153 mW (@ 600 Ohm) >8.8V/2,417 mW (@ 32 Ohm)
Power consumption	Nitro 12W; Turbo 5W; Normal 2W; xMEMS 8W	Turbo 12W; Normal 5W; xMEMS 8W	Turbo 12W; Normal 5W; ECO 2W



Other Features



Diablo 2. It has wings.



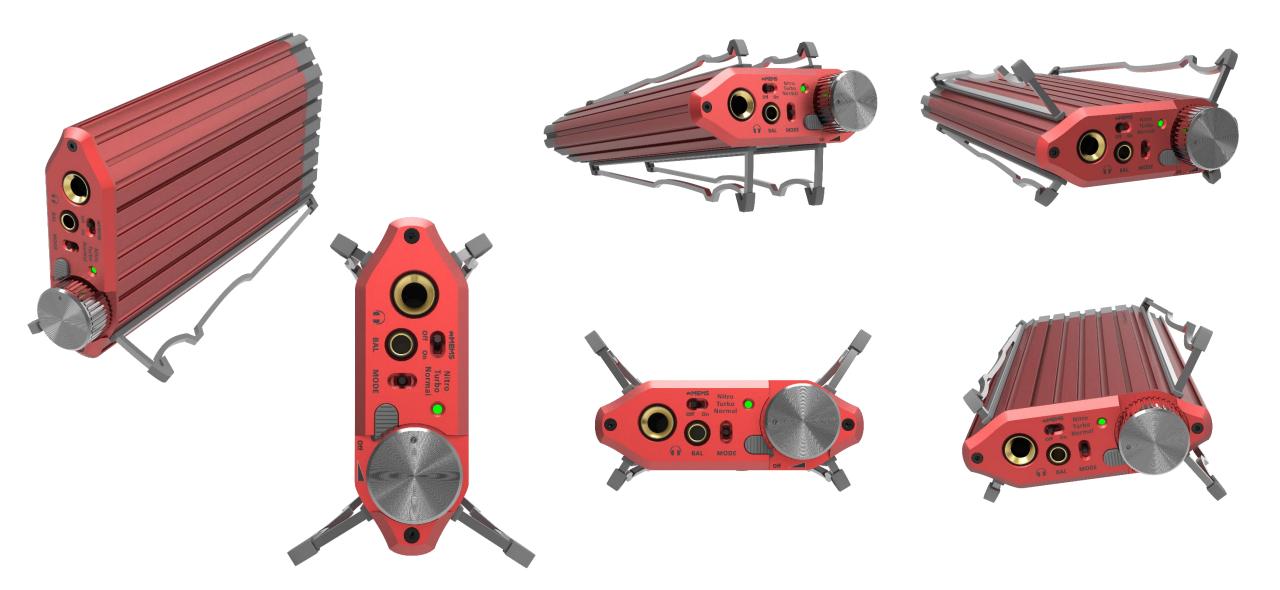
Horizontal or Vertical.

Customise the wings on the iDSD Diablo 2 to position it horizontally, like a **desktop DAC/amp**, or vertically to **save space**.

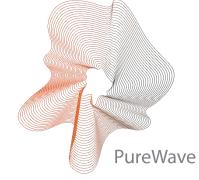




Your wings. Your way.



Wing-to-wing with Desktop DAC/Amps.



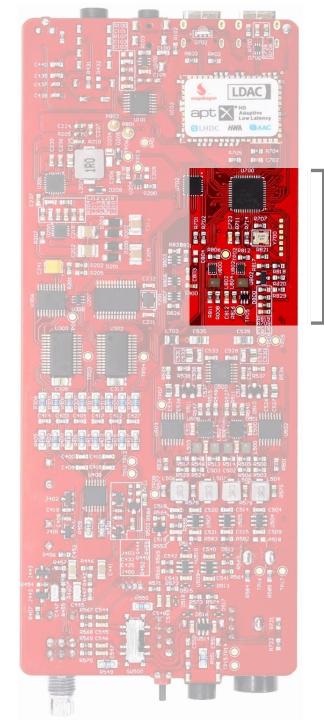
PureWave, a **full balanced dual-mono** analogue circuitry, enhances audio clarity by separating channels, reducing noise, and ensuring unmatched purity with minimal distortion.



DirectDrive offers a **unique direct signal path**, eliminating the need for coupling capacitors, resulting in purer, 'truer' audio quality.



OptimaLoop uses **tailored multiple feedback** paths instead of a global loop in amplifiers, bypassing traditional issues to control gain and reduce distortion. Ensuring precise audio performance.



Advanced jitter reduction

Enhanced **GMT femto-precision clock** and **Smart storage cache** reduces phase noise for purer sound.

IDSD DIABLO-X

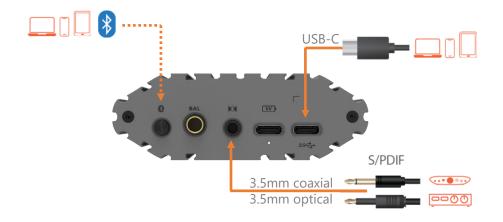


Multiple operational modes

Pure DAC

DAC/headphone amp







Powered by battery or mains

High-capacity **4,800mAh** lithium-ion battery provides long runtime despite extreme amp power.



iPower 2 power supply with Active Noise Cancellation.

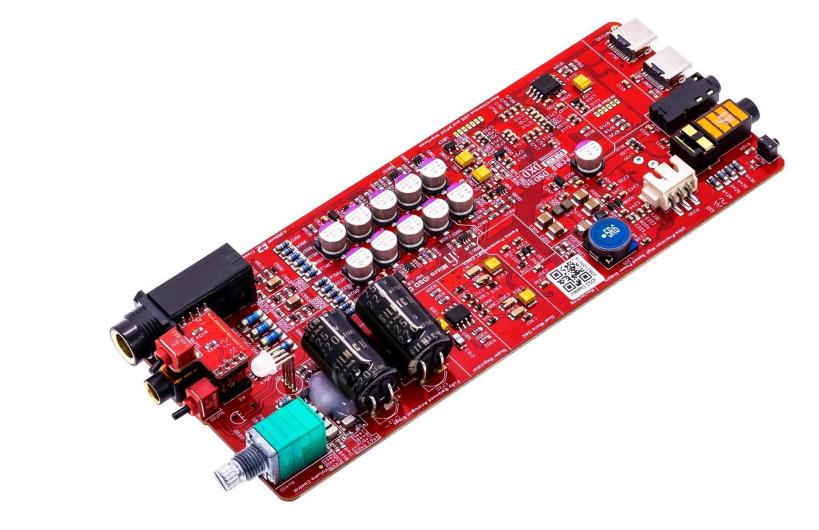


Silent Power.









Appendix

Specifications

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iDSD Diablo 2				
Digital				
Hi-res support	768kHz; DSD512; full MQA			
Bluetooth formats	aptX Lossless, aptX Adaptive, aptX, LDAC, LHDC/HWA, AAC, SBC			
Output power				
Output	4.4mm, 6.3mm			
4.4mm	>19.2V/611mW (@600Ω); >12.87V/5180mW (@32Ω)			
6.3mm	>9.6V/153mW (@600Ω); >8.85V/2450mW (@32Ω)			
xMEMS	>28Vpp (4.4mm output)			
Line output				
Output impedance	≤200Ω			
SNR	≥114dB(A)			
DNR	≥114dB(A)			
THD+N	0.002% @ 0dBFS 200kΩ			
General				
Power consumption	Nitro 12W; Turbo 5W; Normal 2W; xMEMS 8W			
Battery	Lithium-polymer 4800mAh			
Charging	Via USB-C – BC v1.2 compliant up to 1900mA			
Dimensions	166x85x28.5mm			
Net weight	455g (1.0lbs)			

Connectivity				
Digital inputs	1x USB-C; 1x S/PDIF (optical/coaxial); Bluetooth 5.4™			
Headphone outputs	1x balanced 4.4mm; 1x 6.3mm			
Line output	1x balanced 4.4mm			
Power/charging	1x USB-C			



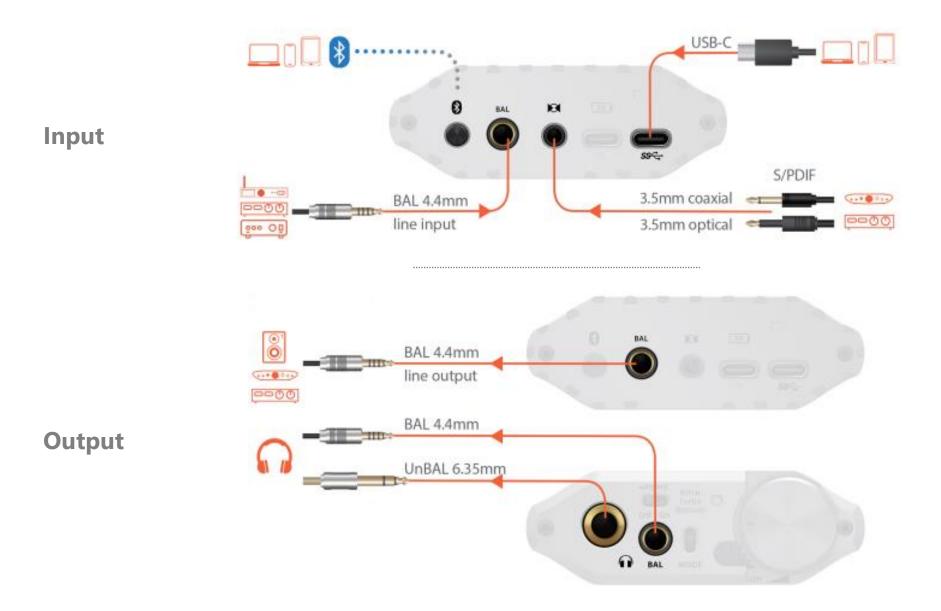
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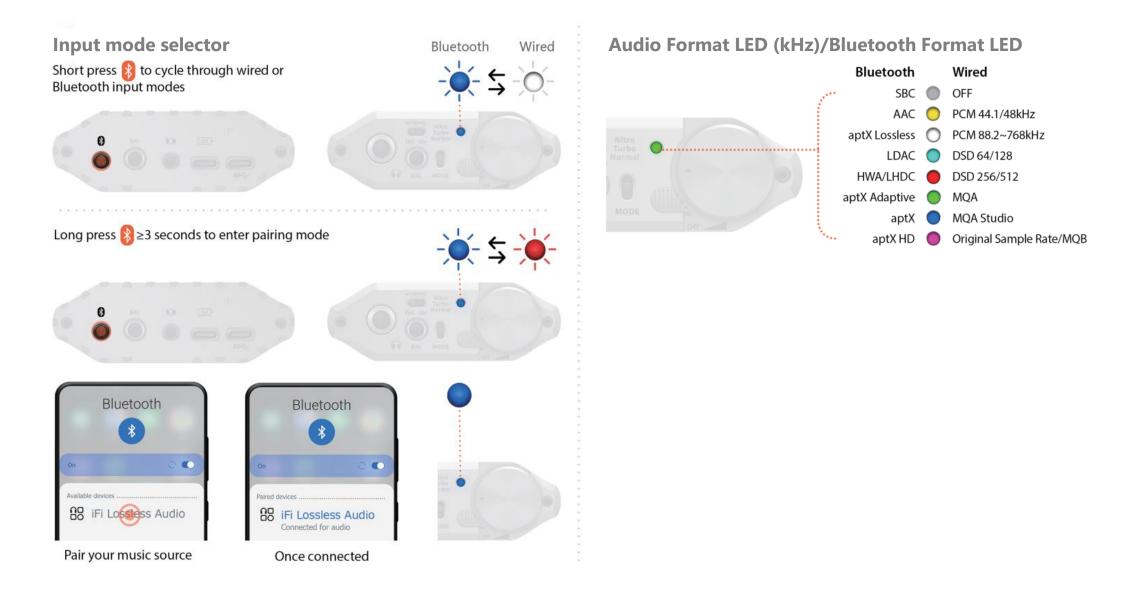


Connections

iΠ



Bluetooth Pairing and Audio Format LED



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