



Heavenly Sound. Devilish Power.



Predecessor

IDSD DIABLO-X

IDSD DIABLO

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











Key Features

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



World's first **Lossless Bluetooth** portable DAC/AMP



Compatible with **xMEMS** microspeaker technology







Normal, Turbo and **Nitro**: 3 gain modes



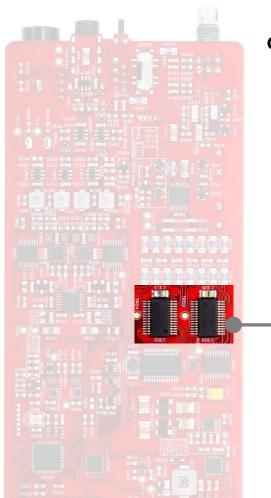
Optimising output for highsensitivity headphones/IEMs



Balanced, symmetrical dualmono topologies



Support Every Bluetooth Codec* and Music Format



Qualcomm° aptX™ Lossless



Bluetooth 5.4™ - Supports new **aptX Lossless**.

The only Bluetooth codec capable of streaming lossless CD-quality audio.



Hi-res support:

PCM 768kHz; DSD512 (22.6MHz); Full MQA decoding.



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



Got power-hungry headphones? Hit Nitro.



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



Next-gen **MEMS headphone driver technology compatible.

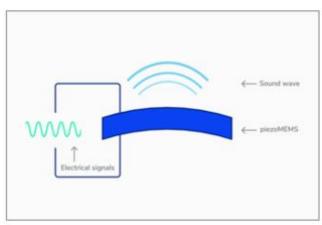


Image sourced from xmems.com

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





Upgraded Features and Functionality





iDSD Diablo 2 vs. Diablo Looks







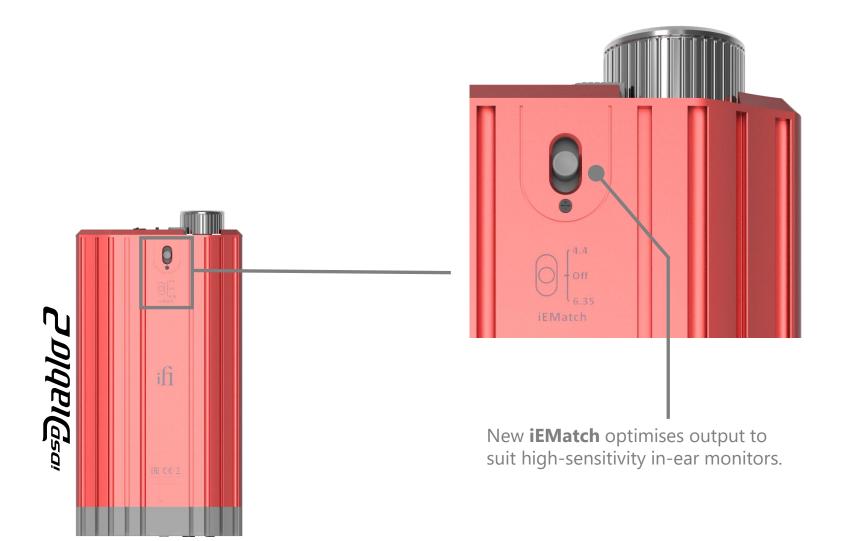
iDSD Diablo 2 vs. Diablo Looks







iDSD Diablo 2 vs. Diablo Looks







Spec comparison







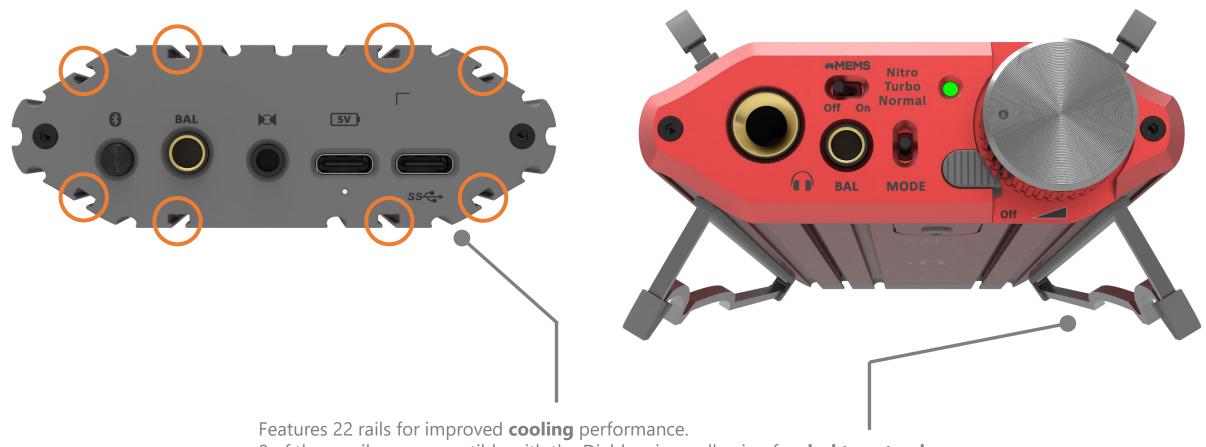
| | iDSD Diablo 2 | iDSD Diablo-X | iDSD Diablo |
|------------------------------|---|---|--|
| Digital Input | USB-C 3.0; S-PDIF (3.5mm coaxial/optical) | USB 3.0 type 'A' (USB2.0 compatible); S-PDIF (3.5mm coaxial/optical) | USB 3.0 type 'A' (USB2.0 compatible) S-PDIF (3.5mm coaxial/optical) |
| Bluetooth formats | aptX Lossless, aptX Adaptive, aptX, LDAC, LHDC/HWA, AAC, SBC | N/A | N/A |
| Max. 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) |
| Max. output power - 6.3mm | >9.6V/153mW (@600Ω); >8.85V/2450mW (@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



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Diablo 2. It has wings.



8 of these rails are compatible with the Diablo wings, allowing for **desktop stand** use.

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.



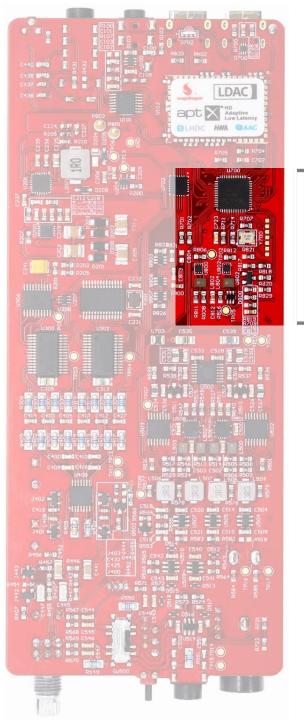
PureWave, a **full balanced dual-mono** analogue circuitry, enhances audio clarity by separating channels, reducing noise, and ensuring unmatched purity with minimal distortion.



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.







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

IDSD DIABLO-X



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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.



Appendix



Specifications

| 111 | |
|-----|--|

| 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 | | | |



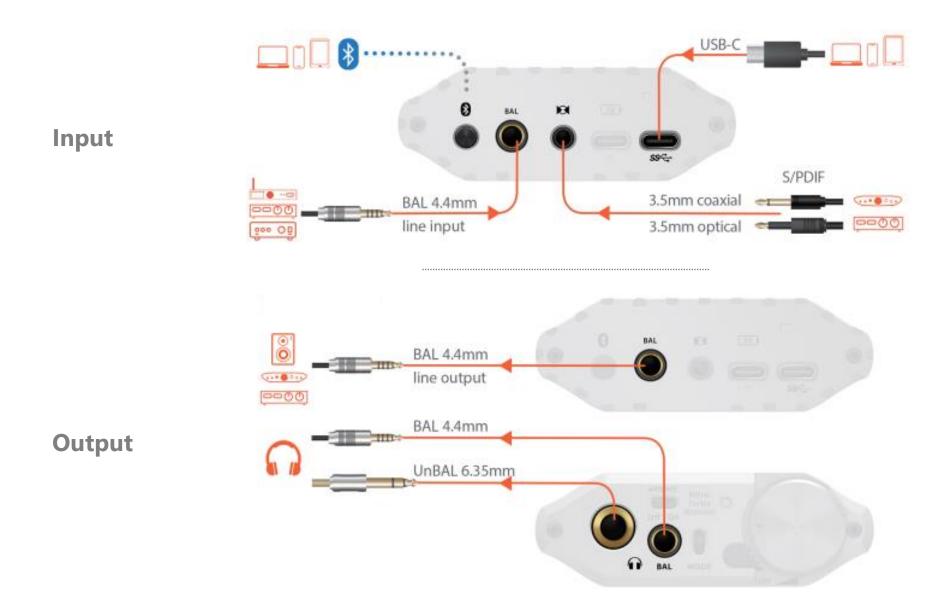


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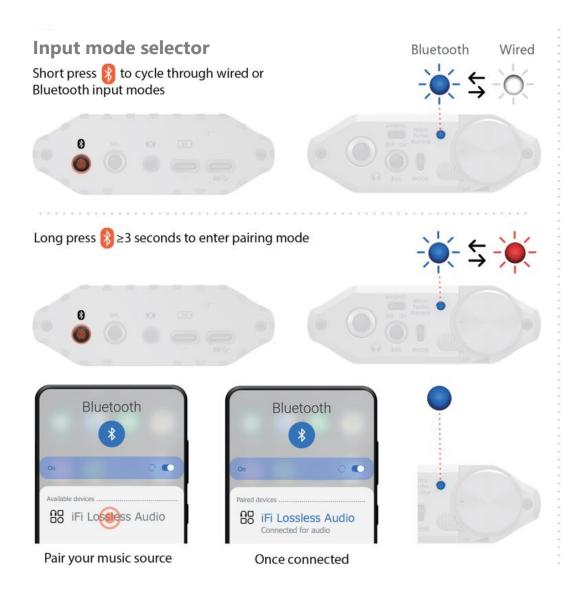
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Connections



Bluetooth Pairing and Audio Format LED





Audio Format LED (kHz)/Bluetooth Format LED

