268mm

96mm

212.5mm

USB DAC Headamp
MQA/Fully balanced 4.4mm output
with xMEMS headphone support

96mm

Burr-Brown® chipset
True Native DSD
Bit-Perfect DXD/PCM

Headamp Turbo®
19.2V/4,100 mW to
drive ANY headphone

Hi-Res
Audio
Streaming

Fully
balanced
circuitry

xMEMS
microspeaker
technology

212.5mm

Find your iDSD DIABLO-X

At the heart of **iFi iDSD Diablo-X** beats the specially selected Burr Brown™ True Native chipset in a dual-core configuration, treating you to the ultra-high-resolution that is second to none. The **iDSD Diablo-X** uses cutting-edge technology to work with xMEMS headphones. The bias, equalisation, and amplification have all been specifically crafted to bring out the best in them.

This aggressively curvaceous headphone amp spiced up with the deep, prodigious bass and the fully balanced circuitry will take you for a ride through the world of ultimate performance, you will never forget. The pure performance **iDSD Diablo-X** edition designed for the true audiophiles, liberated from any unnecessary, extra features aims to keep the sound as close to its natural form as possible.

Packed under this all-new model's hood, just like in a luxurious car, are the turbocharged Bit-Perfect octa-speed DSD512 and double-speed DXD (705.6/768kHz), making **iDSD Diablo-X**'s superspeed, not mere hyperbole.

Thanks to iFi-designed, cutting-edge technological innovations such as Direct-Drive™ and Headamp Turbo™, devilishly powerful **iDSD Diablo-X** drives ultra-sensitive in-ear monitors just as well as the most demanding over-ear headphones with an unswerving authority.

Matching Bi-polar transistors welcome you to the dangerously addictive symphony of natural sound with extraordinary low distortion (THD + N = 0,0000002%). Equipped with the iFi custom ultra-low noise OV2028 and OV2627 Op-amps, **iDSD Diablo-X** will take your music to the sonic stratosphere.

FEATURES:

- Custom designed bias circuit for xMEMS headphones™
- Custom designed EQ circuit for xMEMS headphones™
- Custom designed amplification circuit for xMEMS headphones™
- Octa-DSD512/PCM768 and 2X DXD
- Dual-Core Native DSD/PCM Burr-Brown' chipset
- Fully balanced 4.4mm output
- Digital inputs: USB 3.0 type 'A' (USB2.0 compatible) /S-PDIF (3.5mm coaxial/optical)
- Analogue outputs:4.4mm Balanced
- Headphone outputs:4.4mm Balanced/6.3mm Single-Ended
- 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*
- Ultra-low noise iPower 5V power supply*

***Diablo-X** edition

CONTENT

- iDSD Diablo-X
- iEMatch 4.4
- USB-A to USB-C Cable
- USB-AF to USB-CF adapters
- Power adapter
- USB3.0 Cable
- USB-C to USB-C Cable
- DC to USB-C Cable
- Traveller
- USB-C OTG
- 3.5 to 6.3mm adapter
- Quick Start card
- 4.4mm to Twin Splitter Male Cable
- Fibre optic adapters
- Instruction card

Technology licensed from AMR (UK).
Assembled in China.
Ver1.1

MecatronweG 28 Arnhem 6827 DC Netherlands
ABBINGDON EU BV

79 Scarisbrick New Road, Southport, PR8 6LJ UK
Abbingdon Global Limited

S/N:

iDSD DIABLO-X

iDSD Diablo-X* versus other leading DACs

iDSD Diablo-X, maximum output power	4980mW
Other 500mW	
iDSD Diablo-X, maximum output voltage	19.2V
Other 5.4V	

SPECIFICATION:

Digital Inputs: USB 3.0 type 'A' (USB2.0 compatible)
S-PDIF (3.5mm coaxial/optical)

Formats: DSD 512 /22.6MHz
PCM 768kHz
MQA Full Decoder

DAC: Bit-Perfect DSD & DXD DAC by burr Brown

Frequency Response: 10Hz-80kHz (-3dB)

SNR:
Balanced: -120dB
UnBAL: -114dB

Dynamic range:
Balanced: -120dB
UnBAL: -114dB

THD + N:
Balanced: 0.0002%
UnBAL: 0.001%

Headphone Max Output power:
Balanced: > 28Vpp (@xMEMS)
UnBAL: >19.2V/611 mW (@ 600 Ohm)
>12.6V/4,980 mW (@ 32 Ohm)

Battery: UnBAL: >9.6V/153 mW (@ 600 Ohm)
>8.8V/2,417 mW (@ 32 Ohm)
Balanced 4.4mm

Fixed Audio Output:

Power consumption:
Turbo: 12W
Normal: 5W
xMEMS: 8W

Power System: Lithium-polymer 4800mAh
Charging via USB-C (iFi iPower included),
BC V1.2 compliant up to 1900mA charging current

Dimensions: 166 x 72 x 25 mm
6.5" x 2.8" x 1.0"

Net Weight: 330 g (0.73 lbs)

Limited Warranty: 12 months*

*12 months typical or as permitted/required by local reseller laws.
**specifications are subject to change without notice.