



iFi ZEN CAN 3 - xMEMS Headphone Amp



iFi Audio, a trailblazer in high-fidelity audio components, is proud to announce the ZEN CAN 3 high performance headphone amplifier. Marrying versatility with power and precision, the latest iteration in the ZEN CAN series boasts xMEMS micro-speaker amplification mode, multiple EQ modes including Gaming and Movies, and up to 2,000mW output power.

xMEMS Support

The iFi ZEN CAN 3 supports IEMs using xMEMS, an innovative speaker technology to push the boundaries of headphone performance.



xMEMS speaker technology implements both actuation and diaphragm in silicon producing the world's fastest and most precise speakers for IEMs. With these next-generation speakers, there's virtually no phase shift and they are close to 150 times faster than regular mechanical drivers.

There is also a 2° flat phase response for more accurate sound reproduction and +/- 1° phase matching for more accurate spatial sound. ZEN CAN 3 also features a Silicon speaker diaphragm, 95 times more rigid than plastic, for reduced speaker break-up and a less muddy midrange.

By incorporating the pioneering xMEMS amplification first found in the flagship iDSD Diablo-X, the ZEN CAN 3 can deliver the voltage required for optimal operation of this cutting-edge technology, bringing the power of xMEMS to a whole new audience.

Gaming & Movie Modes

The iFi ZEN CAN 3 is built for more than just music. The new launch boasts 2 new analogue EQ modes, tuned for Gaming and Movies.

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Movie mode is an EQ specifically designed to address the clarity of dialogue in streamed content, enabling you to fully immerse in the narrative without straining to hear or decipher what is being said.

Game mode caters directly to the needs of those constantly seeking any advantage they can get in competitive play from hearing even the faintest sounds that can give away an opponent's position or signal an approaching threat.

This EQ enhances this aspect of gameplay by sharpening subtle, low-level sound effects, ensuring that every sound becomes more distinct and easier to pinpoint. Whether navigating through intense firefights or sneaking up on enemies, this heightened audio sensitivity allows you to stay one step ahead of opponents.

Prodigious Power

A noticeable step up in power, perfect for difficult-to-drive headphones. The new iFi ZEN CAN 3 brings up to 2,000mW continuous output power to deliver an exceptional sound experience for almost every headphone on the market. The ZEN CAN 3 also features 0-18dB adjustable gain, with +6dB steps to perfectly match your headphones.

Its ability to handle dynamic peaks with ease means you can experience music as it was meant to be heard – vivid, immersive, and profoundly moving. It means more than just loudness – it's about feeling the music resonate through you, stirring your soul and creating a connection that transcends mere sound.

Whether its planar magnetic headphones requiring more power to drive accurately, or high-impedance models that need ample current delivery, the ZEN CAN 3 has the power to handle it all.

DSP-Free Purity

Unlike other audiophile offerings, all the ZEN CAN 3's features are done with analogue circuitry, as opposed to Digital Signal Processing (DSP), where the audio signal is manipulated before being converted to true analogue sound.

Instead, the ZEN CAN 3 leverages the natural advantages of analogue circuitry: it maintains the integrity of the sound, introduces less phase shift and distortion, and boasts a more natural-sounding adjustment of frequencies.

iFi's signature analogue bass enhancement, XBass+, is designed to make bass hit harder without compromising the clarity of the midrange – perfect for when you're listening with IEMs or open-back headphones that lack bass response.



XSpace recreates the expansive soundstage of speakers, transforming headphone listening from confined and 'inside your head' to natural and spacious. This technology makes music come alive, offering a concert-like sound experience without losing any detail or resolution – all achieved through the innovative design of our circuitry.

Superior Components. Class A Sound.

The ZEN CAN 3 features trickle-down Class A discrete balanced circuitry from our flagship headphone amplifier. Underpinning the circuitry are cherry-picked, premium components from Panasonic, TDK, MELF, Texas Instruments and muRata.

The amplification stage boasts iFi/AMR's own 'OV' (Operationsverstärker) series op-amps, outperforming commercial chips that use low-grade copper and inexpensive aluminium bond-wire.

The performance of the ZEN CAN 3 is optionally upgradable by powering with an ultra-quiet power supply. The SilentPower iPower2 boasts performance more than 10 times quieter than other audiophile solutions – ensuring the clarity you crave is never compromised.

Pricing & Availability

The iFi ZEN CAN 3 is available to purchase from ifi-audio.com for £229 / \$229 / CA\$229 / AU\$229 / €229

General Specification

Analogue Inputs			Balanced 4.4mm Single-Ended 3.5mm RCA
Analogue Output			Balanced 4.4mm
Headphone Outputs			Balanced 4.4mm Single-Ended 6.35mm
Output Power (RMS)	Balanced Single-Ended		2,000mW @ 64Ω 1,600mW @ 32Ω
Output Impedance	Balanced Single Ended		<2Ω <1Ω
THD+N	Balanced Single-Ended		<0.006% <0.006%
XMEMS			>21Vpp (Balanced 4.4mm), 22Ω, 11V DC Bias
SNR	Balanced Single-Ended		>125dB >122dB
DNR	Balanced Single-Ended		119dBA @ 0 dBFS 119dBA @ 0 dBFS
Line Output			
Output Level			4Vrms (0dB 200kΩ load)
Output Impedance			<200Ω
Frequency Response			10Hz-200kHz (-3dB)
Dimensions			158 x 117 x 35mm (6.2 x 4.6 x 1.4")
Net Weight			495g (1.09 lbs)
Limited Warranty			12 months*