

iDSD GR 2

Portable DAC, Preamp, & Headphone Amp



Summary

"Where Legend Evolves."

The iDSD GR 2 takes one iconic design of iFi's most popular DACs and pushes the boundaries even further for a new generation.

Unique Selling Points:

Our first use of the Burr-Brown PCM1795 DAC
OLED display with capacitive touchscreen
1,513mW RMS power output at 32 ohms
JVCKENWOOD's K2 and K2HD Technology

Features and Functionality:

Bluetooth 5.4 with aptX Lossless and LDAC
Hybrid power modes maximise battery lifespan
Versatile digital and analogue connectivity
Nexis app compatible for updates and advanced options





Where Legend Evolves.

The GR 2 continues the story of one of our most celebrated portable designs.

Rebuilt from the ground up, it introduces a **new DAC chipset** and **refined architecture**, unlocking greater potential for sound quality than ever before. A **new capacitive touchscreen** interface and **Nexis compatibility** bring every setting directly to your fingertips, with no barriers between you and control.

From **high-resolution digital inputs** to **advanced analogue connectivity** and **lossless Bluetooth**, GR 2 brings every element together in one uncompromising design.

It is our **most versatile true-portable yet**.



Key Features



New Burr Brown PCM1795
current-output DAC



Recovers the **depth** and
nuance of master recordings

aptX Lossless

CD quality Bluetooth
with **no data loss**



>1,500mW RMS power
output at 32 ohms



OLED display with
capacitive touchscreen



Desktop mode that
bypasses internal battery



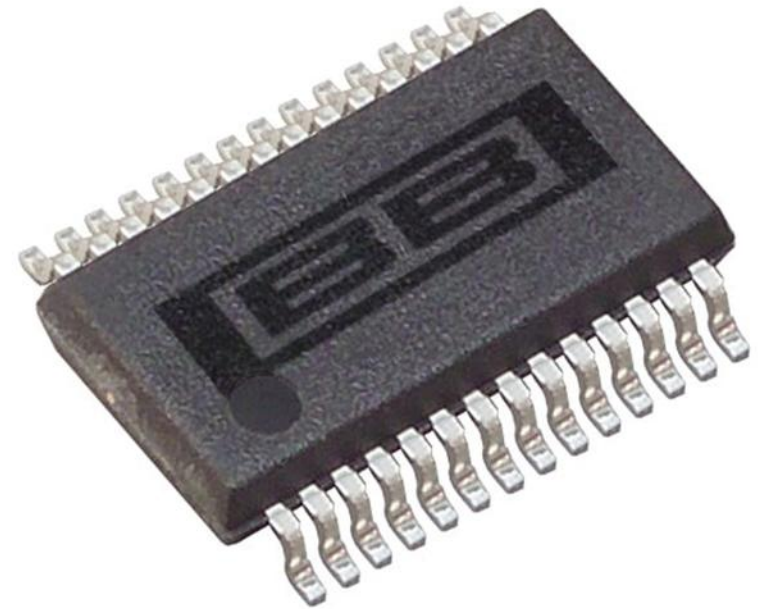
Unique Selling Points

PCM1795. Pure Conversion Magic.

The GR 2 breaks new ground as our first product to feature the **Burr-Brown PCM1795** chipset.

It delivers the warm, analogue character we're known for, but elevated with **true 32-bit resolution, lower distortion, and greater dynamic range.**

As a **current-output DAC**, it gives us complete freedom to engineer a **bespoke analogue output stage** – so we can extract the very best from the chipset.



Picture of the PCM1795 chipset.



Control, Evolved.

A new **capacitive touchscreen OLED display** brings direct, intuitive control to the surface of the GR 2.

This colour screen means core settings are now **immediately accessible**, removing the need for deep menu diving. The interface has been purposefully designed around speed and clarity, making device adjustments feel **natural** and **responsive**.

Headroom, Unlocked.

As well as physical control through the new interface, we've also unlocked **greater control over what you hear.**

The iDSD GR 2 delivers up to **50% more headphone drive** than the previous generation, giving it the headroom to handle more demanding loads with ease.

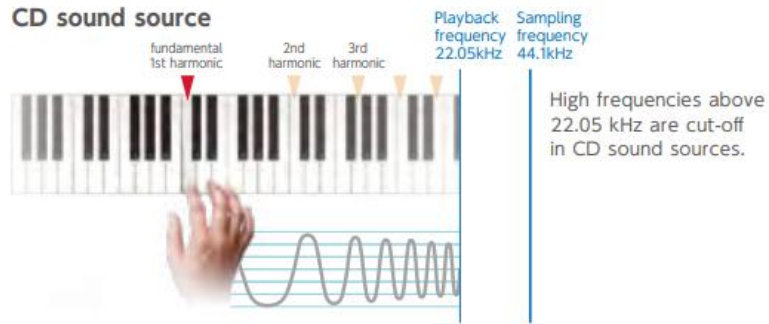
Bass stays composed, transients remain defined, and dynamics open up more freely, **even with harder-to-drive headphones.**

iDSD GR 2: 1,513mW RMS @ 32 ohms

xDSD Gryphon: 1,000mW RMS @ 32ohms



Restoring Musicality.



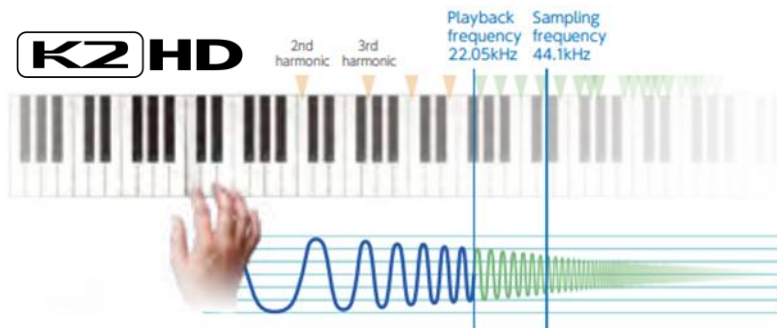
CD Masters do not have harmonic content about 22.05kHz.

Digital recordings can often lose the warmth and natural richness of the original performance, leaving music feeling flat or clinical.

The GR 2 incorporates JVCKENWOOD's **K2HD Technology** to restore depth, tone, and musicality—**reintroducing subtle harmonic detail** to bring recordings closer to their original intent.

The result is a more **natural, engaging listening experience**, with digital playback feeling less processed and more connected to the emotion of the performance.

For those who prefer a lighter touch, 'K2' mode offers similar enhancement **without upsampling**.



K2HD reintroduces harmonics for quality close to the original master.

Other Features





Freedom Without Loss.

GR 2 marks a new generation of portable audio, now paired with a new generation of Bluetooth performance through **5.4** and **aptX Lossless**.

Together, they deliver a wireless experience that preserves **full detail at CD quality** (44.1kHz, 16-bit).

For those looking for the highest available bitrate before going fully lossless, LDAC ensures premium-quality listening with bitrates of **up to 990kbps**.

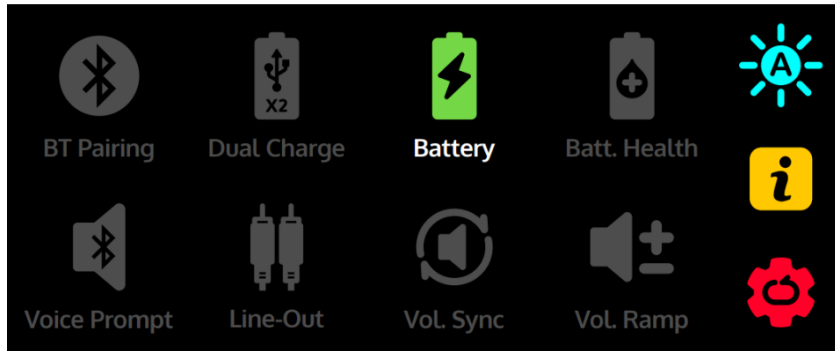


Power That Adapts.

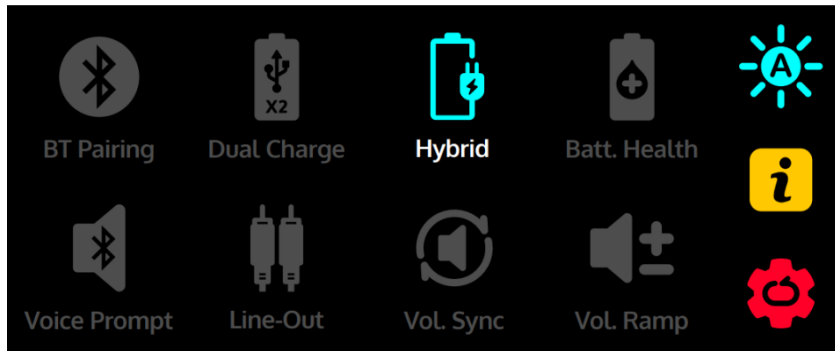
The GR 2 introduces a new **hybrid power mode** that intelligently balances external power and battery operation.

When connected to an external supply, it **prioritises mains power** first. If extra power is needed, GR 2 then draws from the battery, and **automatically returns to external power** once demand drops.

That means you can leave GR 2 plugged in for longer listening sessions **without constantly cycling the battery**.



Battery mode draws power directly from the battery.



Hybrid mode balances external and battery power.



One GR 2. Any Setup.

Despite its compact footprint, the GR 2 is built to slot effortlessly into almost **any listening chain**.

USB, Bluetooth, S/PDIF via coaxial and optical, and **dedicated line inputs** give you the flexibility to connect sources old and new.

Headphone and **line** outputs extend that versatility even further, whether the GR 2 is driving headphones on the move or serving as the heart of a wider system.





Control Beyond the Device.

The GR 2 is fully compatible with **iFi Nexis**, extending control beyond the device itself.

Through the app, **advanced settings** are easy to access and fine-tune, giving you a deeper level of personalisation without complicating the everyday experience.

iFi Nexis also enables **over-the-air updates**, so the GR 2 can continue to evolve over time—adding refinements, features, and improvements long after it leaves the box.



Appendix

In the Engineers' Words.

“ With the GR 2, we completely revisited signal path to keep it as **short**, as **clean**, and as **sonically transparent** as possible.

At the heart of that redesign is the new PCM1795 DAC. Alongside its cleaner harmonic structure, it allows us to use an **external I/V stage** built from higher-grade components, giving us greater freedom to shape a more refined analogue output. We decided on **Class A op-amps** to maintain a natural analogue character.

Further along the chain, we **removed electronic switches** that previously introduced loading and distortion, while moving to a **fully balanced architecture** to further reduce distortion. Since the preamp is now fully balanced, we made the **head amp fully balanced** - with no SE to balanced conversion.

Even the protection scheme has been reconsidered, now using **low-impedance MOSFETs** with integrated iEMatch circuitry.

The overall design is more sophisticated than anything that came before it—but the payoff is simple: **lower distortion, greater transparency, and more consistent performance over time.**”



Colin
Chief Engineer



Yehven
Senior Design Engineer

Connections



Headphone Out
3.5mm S-Bal



Headphone Out
4.4mm Bal



USB-C Input
5V DC Power



USB-C Input
Data



S/PDIF Input
Coax & Optical

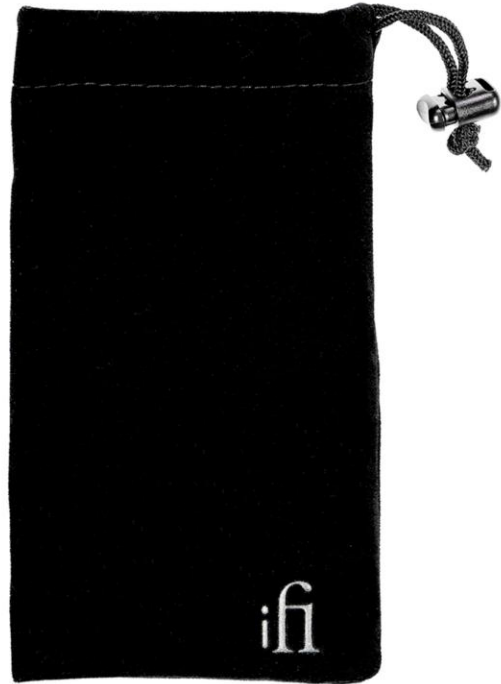


Line In/Out
4.4mm Bal



Line In/Out
3.5mm SE

Box Contents



Specifications

iDSD GR 2	
Hi-Res Support	PCM 768kHz; DSD512
Bluetooth Codecs	aptX Lossless, aptX Adaptive, aptX, LDAC, LHDC/HWA, AAC, SBC
DAC Chipset	Burr Brown PCM1795
Digital Inputs	1x USB-C; 1x S/PDIF (optical/coaxial); Bluetooth 5.4
Analogue Inputs & Outputs	1 x Balanced 4.4mm, 1 x Single-Ended 3.5mm
Headphone Outputs	1 x Balanced 4.4mm; 1 x S-Balanced 3.5mm
Output Power (RMS)	6.94V/1,513mW @ 32 Ω ; 8.60V/119mW @ 600 Ω (Bal) 4.26V/567mW @ 32 Ω ; 4.27V/30mW @ 600 Ω (S-Bal)
Output Impedance	$\leq 0.4\Omega$; $\leq 4.5\Omega$ with iEMatch (Bal) $\leq 0.2\Omega$; $\leq 4.4\Omega$ with iEMatch (S-Bal)
SNR & DNR	115dBA (all outputs)
THD+N	0.006% @ 16 Ω (headphone outputs) 0.0005% @ 0dBFS (line outputs)
Battery	Lithium-Polymer 4,900mAh; ~7h battery life
Power Requirements	5V/>1.8A via USB-C; ~3.5h charging time
Dimensions	141 x 75 x 19mm (5.55 x 2.95 x 0.75")
Net Weight	268g (0.59lbs)
Limited Warranty	12 months*; 24 months in EU

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