



**NEW** Ferrum  
**ERCO Gen 2**

ONE **MORE** THING:  
the original ERCO can also be upgraded to Gen 2



## ERCO Gen 2, closer to the music

ERCO Gen 2 will bring our entry-level DAC one step closer to the performance levels of WANDLA, our flagship converter. The complete reprogramming of the original ERCO involves the implementation of a completely new firmware structure and goes much further than a regular firmware update. We ended up using the actual code from SERCE putting the experience gained from developing our SERCE platform to elevate the original ERCO to a level nearing its bigger sibling WANDLA. Now, our entry-level DAC will bring you closer to the music than ever before. The DSP in ERCO Gen 2 will equal WANDLA, bringing things like 768 kHz support, DSD512, improved DAC performance and including our users' most preferred WANDLA digital filter. We even created an upgrade program for existing ERCO owners to bring their units to the new ERCO Gen 2 specifications. More info on [www.ferrum.audio](http://www.ferrum.audio)

# ERCO Gen 2

## closer to the music



**Improvements brought to you by ERCO Gen 2** - The I/V converter stage has better overall performance and SERCE's DSP engine provides oversampling using DDF preferred HQ Apodizing digital filter, which get the most out of the DAC chip almost emulating WANDLA performance.. Last but not least maximum resolution is now PCM 768kHz and DSD512.

**Suited for high end personal audio** - connect your favourite headphones to the balanced 4,4mm or unbalanced 6,35mm headphone jack outputs or powered loudspeakers on your desktop to the XLR or RCA outputs to perform to their max.

**Discrete/IC hybrid design** - Ultra-wideband ICs fine tuned for audio use to achieve the best possible analog quality.

**Truly Balanced** - the signal path is truly balanced from early D/A stage and becomes truly balanced using the RCA inputs.

**Ease of use** - only three knobs to control all settings.

**Proprietary Technology** - Industry leading technology is applied. All digital ports are optimised for audio, MQA decoding and rendering is optimised for use with internal ARM chip.

**Optimized Digital inputs** - specially programmed USB, coaxial and optical S/PDIF ports, optimized for audio.

**Enhanced transparency** - the whole design is focussed on a balanced and very transparent sound signature, making listening fatigue something of the past.

**Made for HYPSSOS** - while ERCO performs very good right out of the box it is made to excel above and beyond when used together with HYPSSOS. Using the proprietary Ferrum Power Link (FPL) connection HYPSSOS will perform to its maximum, unleashing unheard musicality when combined with ERCO.

## 1.795 EUR/USD



### Specifications Ferrum ERCO Gen 2 headphone DAC/AMP:

Headphone output gain:	balanced -5.8 dB, +6 dB, +17.8 dB; single ended -11.8 dB, 0 dB, +11.8 dB	Line outputs:	balanced XLR; unbalanced RCA (both Red Book level: 4V RMS bal./2V RMS unbal.)
Operation:	fully balanced, proprietary IC power amp	Volume control:	analogue with bypass option (bypass for line outputs only)
Power inputs:	5.5/2.5 mm DC connector center positive; proprietary FPL 4-pin DC connector (FPL)	Frequency response:	10 Hz – 30 kHz (+/- 0.05 dB) 10 Hz – 200 kHz (+/- 1 dB)
Analog inputs:	RCA (Red Book level 2V RMS recommended, PRO level supported)	Output power unbalanced:	300 mW into 300 Ω; 1.7 W into 50 Ω
Digital inputs:	USB-C (MQA, up to PCM 32-bit/768kHz, DSD512, DoP256) S/PDIF coaxial (MQA, up to PCM 24-bit/ 192 kHz, DoP64); S/PDIF optical (MQA, up to PCM 24-bit/96 kHz guaranteed, should work up to PCM 24-bit/ 192 kHz and DoP64 – depends of user's optical cable and transmitter)	Output power balanced:	1.2 W into 300 Ω; 6.1 W into 50 Ω
DAC chip:	ESS Sabre ES9028PRO	THD on balanced output:	< 0.00018% / -115 dB, 1 mW into 16 Ω; < 0.00018% / -115 dB, 100 mW into 16 Ω
PCM sample rates (kHz):	44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 / 705.6 / 768 kHz	THD on unbalanced output:	< 0.00032% / -110 dB, 1 mW into 16 Ω; < 0.00057% / -105 dB, 100 mW into 16 Ω
DSD sample rates (MHz):	2.8224 / 3.072 / 5.6448 / 6.144 / 11.2896 / 12.288 / 22.5792 / 24.576 MHz	Dynamic range analog:	129 dB (A-weighted)
MQA:	decoder and renderer (USB, OPTO and COAX)	Dynamic range digital:	117 dB (A-weighted)
Headphone jack outputs:	balanced 4.4 mm (TRRRS); unbalanced 6.35 mm (TRS)	Input impedance:	47 kΩ
		Output impedance unbalanced:	22 Ω on pre-amp
		Output impedance balanced:	44 Ω on pre-amp
		Output impedance Headphones:	< 0.3 Ω
		Power consumption:	idle <15 W
		Power adapter:	100-240V AC to 22-30V DC
		Dimensions (W x D x H):	21.7 cm x 20.6 cm x 5 cm / 8.6" x 8.1" x 2.0"
		Weight:	1.8 kg / 3.97 LBS
		Price:	1.795 EUR/USD