

Questyle

Audio Engineering



CMA Fifteen

DAC with Headphone Amplifier

www.questyle.com

Concept

Evolution never stops. As we never stop questing, nor should a real flagship device.

With an outstanding performance level, and all the ingredients for a new flagship, we present you our new Flagship Headphone Amp with DAC, Questyle CMA Fifteen.

CMA Fifteen, in memory of Revolutionary Current Mode Amplification technology of Questyle.





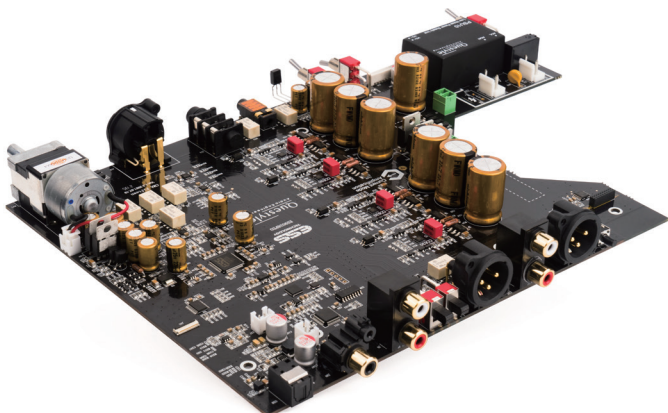
Current Mode
Amplification

Current Mode Amplification

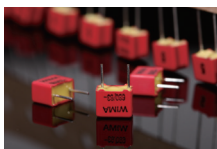
Global PCT Patent No.: US 9,614,483 B2

Current Mode Amplification, referring to a Current Mode Audio Amplifier, is a patented technology of Questyle Audio. It is a state-of-the-art technology of audio amplification different from the traditional audio amplifier. As the “engine” of audio system, Current Mode Amplification, featuring a fully discrete and topological structure, achieves ultra-high sound performance close to recording scene that makes the audience truly moved. Meanwhile, based on Current Mode Amplification technology, users can get a much better listening experience than common devices, even with their own headphones or speakers rather than the original collocation.

4	THD+N	0.0005 %	4.4 mm
Groups			
Current Mode Amplifiers	Ultra-low Distortion		Balanced Headphone Jack



Nichicon FW capacitors



WIMA capacitors



DALE military resistors

When Current Mode Amplification Meets Current mode DAC Current Mode²

With 3 years of pre-research with ESS, Questyle selected the flagship DAC ES9038Pro, a decoding chip with the most powerful performance on this planet, and jointly launched CMA Fifteen with ESS, supporting 32Bit/768k and DSD512 master band format.



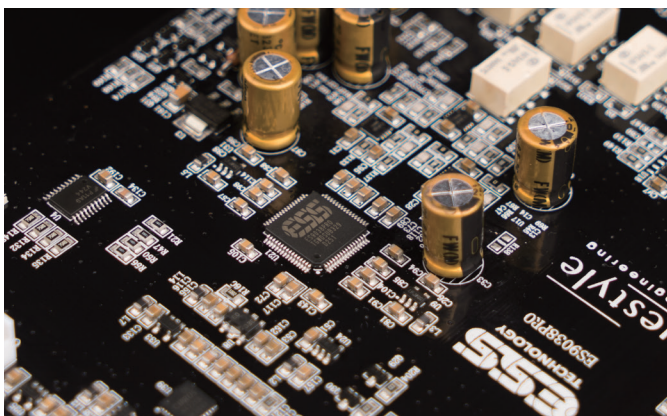
PCM768 | DSD512 | 32Bit

As is known to us all, to chase extreme performance, most high-end DAC chips from world-renowned DAC manufacturers choose current-type output, combined with IV converter and traditional classical amplifier architecture. Well, we think of a different way: We use the ES9038Pro current-mode DAC, and four Current Mode Amplifiers to operate together in fully balanced mode to achieve the "all-link lossless" purity we expect.

**SABRE
HiFi**

**SABRE
PRO**

SABRE



CMA Fifteen supports MQA full decoding

MQA is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download.

The CMA Fifteen includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

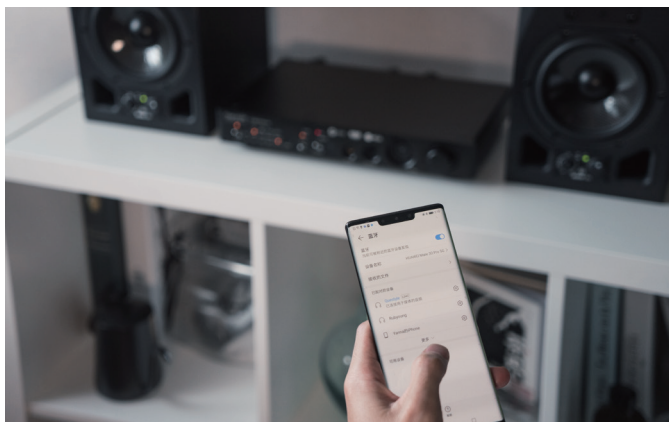
The LED glows green or blue to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.



mqa.co.uk | Bob Stuart, the co-founder of Meridian and inventor of MQA technology

CMA Fifteen supports LDAC Bluetooth

As a global member of Sony, we equipped LDAC Bluetooth to CMA Fifteen. LDAC™ is a new audio technology from Sony that allows you to enjoy high quality wireless audio via Bluetooth. With 3x the data transmitted, LDAC provides an enhanced wireless listening experience for all your music.



Make Apple Music Lossless work on your Hi-end audio system

CMA Fifteen supports Apple Music Lossless. In addition to the classic USB Type-B interface, CMA Fifteen adds USB Type-C interface to solve the wire conversion loss by cables. Without storage burden, you can finally start the new experience of high resolution lossless audio online, anytime, anywhere.

* USB Type-c has priority. When USB Type-c and Type-B are connected at the same time, the system will process the type-c audio source by default.



CMA Fifteen As PHONO preamp

If you are a record lover, you must love this idea. CMA Fifteen provides record lovers with the best possible sound quality. Get tired of digital music, and get yourself back to the golden age of records.



Connect speakers to get a desk concert hall



Continuity and inheritance

Questyle believes that a great product must start from the details. CMA Fifteen continues the classic design concept and perfect production technology, and further improves the details. Resonance is always a detail that could be easily ignored. Mechanical vibration will affect audio signal processing and the resulting sound. To avoid resonance, the CMA Twelve chassis is formed from 10mm-thick aircraft-grade Aluminum 6063, with high precision machining techniques of $\pm 0.02\text{mm}$.



Laser etched text for status and volume knob.

Classic Questyle Black with amber glow LED indicator.



CMA Fifteen even considers that the layout balance before and after the machine is connected to cables to ensure that the inherent resonance is minimized. CMA Fifteen also has a complete output protection function, when the device fails or detects other abnormalities, automatically cut off the output, to protect your headphones and stereo.

Heat Level

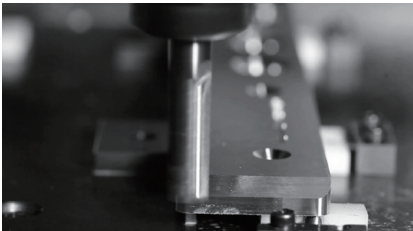
45 °C

Chassis Thickness

10 mm

Machining Precision

± 0.02 mm



Specifications

Input / output parameters

Digital Input: USB x 2 (Including a high-priority USB Type-C interface and a USB Type-B interface.)

PCM: 44.1kHz-768kHz/32Bit

DSD: Native DSD512; DoP DSD256

MQA: Full / Core decoder

USB input supports UAC 2.0. It supports Win XP, Vista, Win7, Win8, Win10, Linux, MAC OS and other operating systems. It also can be connected to smartphones supporting OTG audio output.

Note: Windows system under Win10 will need to install the ASIO driver developed by Questyle. Win10 system supports DoP DSD256 without installing the driver, and supports Native DSD512 with the driver installed.

Optical Input x 1: PCM: 44.1kHz~192kHz/24Bit

Coaxial Input x 1: PCM: 44.1kHz~192kHz/24Bit

Bluetooth Input x 1: SBC, AAC, LDAC (At the highest level of 96kHz/24Bit, 990kps/909kps)

Analog Input: RCA x 1, 2Vrms standard level

Headphone Amplifier Output Interface:

6.35mm standard headphone jack x1

4-PIN balanced headphone jack x1

4.4mm balanced headphone jack x1

Note: You can set High/Standard bias through the BIAS switch on the front panel of the headphone amplifier, and set Standard/Low gain through the four Gain switches on the bottom of the headphone amplifier.

Pre-Amp Output Interface: XLR x 1 ; RCA x 1

Note: The output level can be set by Standard/Studio switch and volume can be controlled by ADJ/FIX switch on the rear panel.

Headphone Amplifier Output Specs

Max Output Power:

6.35mm: 188mW @ 300Ω 1.5W @ 32Ω

4.4mm balanced / XLR 4-PIN balanced: 765mW @ 300Ω 2W @ 32Ω

THD+N: <0.0003% @300Ω ; <0.001% @32Ω

Frequency Response: ±0.2dB (DC-22kHz) @48kHz/24Bit

SNR: 6.35mm: >117dB ; 4.4mm balanced / XLR 4-PIN balanced: >120dB

Pre-Amp Output Specs

Max Analog Output Amplitude:

RCA: 2V (Standard), Studio mode output up to 14dBu

XLR: 4V (Standard), Studio mode output up to 20dBu

THD+N: RCA: 0.0004% ; XLR: 0.0003%

Frequency Response: ±0.2dB (DC-22kHz) @48kHz/24Bit

SNR: RCA: >116dB ; XLR: >119dB

Questyle

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Questyle-Technology



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