Questyle

Audio Engineering

CMA800P

Current Mode Pre-Amplifier

USER'S MANUAL

www.questyleaudio.com

Questyle

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CMA800P

电流模前级功率放大器

用户手册

www.questyleaudio.cn

Contents

Thank you for selecting Questyle Audio CMA800P Pre- Amplifier. We are sure it will provide you with countless hours of uninterrupted musical bliss. At Questyle Audio it is our goal (our “Quest” so to speak) to provide elegant, precision manufactured audio products with a no-compromise approach to sound. Whether you intend to drive a conventional amplifier, a headphone amplifier or a headphone amplifier with an integrated preamp, the Questyle Audio CMA800P will produce a sound that is rich and detailed with an extended and more controlled bass, greater dynamics and authority, as well as, high frequencies that exhibit an airiness and musicality, that simply cannot be found elsewhere.

The Questyle Audio CMA800P employs an all discrete, all Class A architecture implementing Questyle Audio’s patented "Current Mode Amplification" technology, producing no measurable TIMD while boasting THD levels of less 0.00021% across the entire audible spectrum with a linear bandwidth of over 100kHz. With performance like this, the Questyle Audio CMA800P can easily challenge all pre-amps in current production.

In our unending quest for audio perfection, even the chassis is an active audio component, the Questyle Audio CMA800P employs heat-leaking aluminum cases to maintain proper temperature control, and shield from unwanted external EM radiation.

To insure precise and reliable production the Questyle Audio CMA800P undergoes strict levels of quality control. To this end, all metalwork for and final assembly of the Questyle Audio CMA800P is carried out at Foxconn, under the highest standards of operation, and each Questyle Audio CMA800P carton box contains a test report made by AP2722, detailing its performance during final testing.

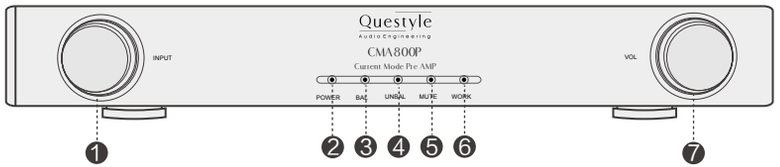
Features

- Patented Current Mode Amplification, 0.00021% ultra-low distortion and ultra-high bandwidth amplification
- Balanced (XLR) and Single Ended (RCA) inputs
- Customized Plitron toroidal transformer
- Nichicon 2200uF FG Audio capacitors
- WIMA capacitors
- All discrete transistors working in a pure Class A configuration
- ON/OFF Anti-Pop Noise protection and DC protection
- Each device has its AP test report attached with the User Manual

Check List

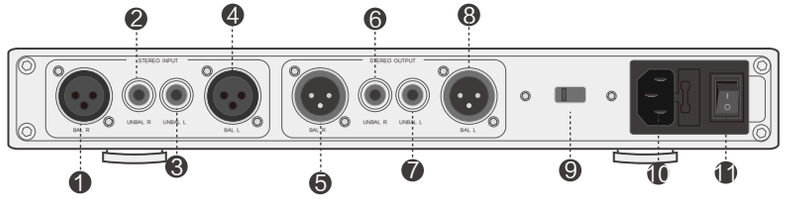
CMA800P	1pc
Power Cord	1pc
User Manual	1pc

Front View



① Function selection button
② AC Power indicator
③ Balanced input indicator
④ Unbalanced input indicator
⑤ Mute indicator
⑥ Status indicator: it is on for working normally.
⑦ Volume control

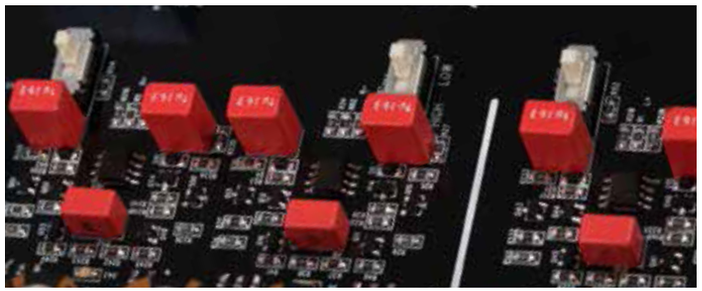
Rear View



① Right channel balanced input
② Right channel unbalanced input
③ Left channel unbalanced input
④ Left channel balanced input
⑤ Right channel balanced output
⑥ Right channel unbalanced output
⑦ Left channel unbalanced output
⑧ Left channel balanced output
⑨ 220V/110V voltage switch button. Please make sure the indicated voltage confirms to local voltage.
⑩ AC power supply
⑪ AC power ON/OFF Switch

Instructions

1) HIGH/LOW GAIN switch of CMA800P
Open the top cover of CMA800P, put the 4 switch buttons on the PCB to LOW for LOW GAIN, and switch them to HIGH for HIGH GAIN.



2) LOW GAIN is recommended for matching with STAX SR-009.
When STAX SRM-727 is used as a power amplifier, it is necessary to open its top cover and switch to “DIRECT” mode, bypassing the volume control for STAX SRM-727.

Technology

1)Current Mode Amplification
(Global PCT No.: PCT/CN2014/075775)

Current Mode Amplification

Questyle Audio’s Current Mode Audio Amplification features the use of transistors to amplify, with a disaggregate structure designed in, to wit: voltage input and output, while the core amplification takes place in the current domain operating in a pure class A state, and allowing the output stage (OPT) to be changed to either class A or AB. It is completely different from the traditional voltage mode amplifier, in the structure of the amplification circuit. Capacitance between the transistors, which affect the speed and bandwidth, operates at a very low impedance, and the full-power bandwidth of the entire amplifier loop is very close to the bandwidth of a closed loop, while the Slew Rate grows linearly with the input signals, together with a strong and speedy negative feedback loop (the speed of the circuit is hundreds of times faster than that of conventional voltage amplifiers). All these attributes are quite different from that of a traditional voltage amplifier. It not only eliminates the TIMD, it also easily achieves amplification with a wide bandwidth and ultra low distortion.

2)Rigorous Test and Sound Control
During the development stage, we first use AP (Audio Precision) to analyze signal data for objective test. Once the desired performance specs are achieved, extensive listening tests are undergone to determine the sonic qualities that the objective tests can’t measure. Subjective tests go hand in hand with objective tests, aiming to achieve a perfect feeling as well as unbeatable specifications. Each CMA800P will be tested by over 30 factors of specification before being shipped out, and copy of the test report will be put into carton box, while another copy will be kept as a record.

Specifications

Gain	Gain High: 6dB Gain Low : 0dB
Max Output Amplitude	13Vrms, full balanced mode 6.5Vrms, unbalanced mode
SNR	131 dB, full balanced mode
	124 dB, unbalanced mode
THD+N	0.00021%@1kHz, 10KΩ, full balanced mode
	0.00023%@1kHz, 10KΩ, unbalanced mode
Frequency Response	DC-100kHz(+0, -3 dB) (Built-in Input Low-pass Filter)
Input Impedance	2.9K Ω
Input	XLR Stereo RCA Stereo
Output	XLR Stereo RCA Stereo
Work Status	Pure Class A
Voltage	100-120V or 220-240V
Power Consumption	9W
Dimension	330*200*55 mm