



CLASSE

DELTA SERIES

CP-700 PREAMPLIFIER



CP-700

PREAMPLIFIER

The new CP-700 is the most advanced and flexible preamplifier in the Classé Delta series range. It utilizes cutting-edge balanced circuit topologies and power supplies to set a performance benchmark for preamplifiers in this category.

HIGHLIGHTS OF THE CP-700 DESIGN INCLUDE:

- External power supply chassis generates seven separate power sources from three transformers.
- A large 135VA transformer with five separate secondary windings provides maximum isolation for the plus and minus voltage sources for each channel, as well as the plus voltage used aboard the CP-700 for control circuitry.
- Input selection is handled by special shielded, low-voltage relays with gold-plated silver contacts, rated to perform to their specifications for over 100 million cycles, are ideal for switching low-level audio signals.
- All unused input signals are disconnected from the chassis, giving the selected source what amounts to its own, dedicated preamp.
- Single-ended sources are routed through an instrumentation-grade input buffer to generate a truly balanced (or symmetrical) signal. Unlike other single-ended to balanced conversion topologies, both legs of the resulting differential signal share the same path lengths and are truly symmetrical.
- All signals, once in the balanced mode, are routed through a DC servo to remove any unwanted DC from the source. Coupling the signal in this way eliminates the need for sonically degrading DC blocking caps, while protecting speakers from the possible damage or distortion resulting from passing DC through to the amplifier.
- Separate stereo volume controls are used for each channel to maximize stereo separation and allow better rejection of common mode noise and distortion.
- Four-layer output buffer circuit boards provide optimum signal routing and excellent distribution of power.
- Six identical circuits per channel make up three discreet, three-stage differential buffer amplifiers (+ and – paths for each buffer). One is dedicated to the single-ended output. The other two are dedicated to the inverted and non-inverted signals on the balanced outputs. Because they have their own dedicated output buffers, both single-ended and balanced output stages may be used simultaneously with absolutely no degradation.
- Optional phono modules (CPM) plug into the CP-700 motherboard to offer MM/MC phono gain and RIAA equalization.
- The CP-700 monitors line voltage, frequency, AC phase and ground condition as well as internal temperature.
- A TFT touchscreen display simplifies the user interface, reduces display-related noise and allows users the convenience of customization.

As with amplifiers and other audio components, preamp performance ultimately depends on intelligent design choices and careful execution. Throughout the CP-700, parts selection, circuit topologies and layout, and construction techniques contribute to outstanding performance in both the laboratory and the listening room.

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model	CP-700
frequency response	20Hz-200kHz \pm 0.1db
distortion (THD + noise)	0.0015%
analog section	
single-ended input (max level)	5V
single-ended output (max level)	10V
balanced input (max level)	10Vrms
balanced output (max level)	20Vrms
S/N ratio	115dB (max level to noise floor)
channel separation	>110dB
inputs	
single-ended inputs (no./impedance)	3pr RCA (incl. 1 pr w/phono option) / 100k Ω
single-ended tape inputs (no./impedance)	1pr RCA / 100k Ω
balanced inputs (no./impedance)	2pr XLR / 200k Ω
outputs	
single-ended	1pr RCA
balanced	2pr XLR
tape out	1pr RCA
weights & measurements	
width	17.5" (445 mm)
depth	16.5" (419 mm) (excluding connectors)
height	4.75" (121 mm)
gross weight	23 lbs (10.5kg)
(with power supply)	31 lbs (14kg)
net weight	44.8 lbs (22.4kg)
Power Supply	
weights & measurements	
width	5" (127mm)
depth	12.07" (307mm)
height	5.6" (142mm)
net weight	9.3 lbs (4.2kg)

