

# CLASSE

## DELTA SERIES

### CP-800

stereo preamplifier/processor



The vast majority of high end preamplifiers available today are direct descendents of products that have been made for decades, rooted in an all-analog world. The CP-800 is something new. It combines key building blocks of a contemporary high-end audio system in a unique way to improve and shorten the signal path. New technologies are applied to realize the benefits of modern computer-based audio. Now, a CD ripped to a computer can sound better than if played in a CD player; convenient and feature-rich access to your music library is possible with state-of-the-art playback; a Classé-designed Switch Mode Power Supply (SMPS) with Power Factor Correction (PFC) delivers higher performance at a lower price; there is no compromise at an affordable price. And there is much more...

#### **Streaming/AirPlay**

A rear panel Ethernet connection offers streaming options including Apple's AirPlay and DLNA, where sources benefit from special handling to accommodate files up to 192 kHz with the CP-800's own oscillators controlling timing for D-to-A conversion. Convenience never sounded so good.

#### **IP Control**

When connected to your home Network, the Classé App (available free of charge in the Apple App store) running on Apple iOS devices offers a sophisticated alternative to the IR remote.

#### **USB**

Having a dedicated computer in your listening room doesn't have to mean noisy fans and bulky monitors. Simple solutions like Apple's Mac Mini or an inexpensive laptop can be installed out of site and operated remotely. Connect by HDMI to your TV, use a wireless keyboard and mouse when necessary and connect to the CP-800 by USB for audio, then control with an iOS device, Smartphone or tablet. Classé's unique implementation of asynchronous USB audio will render studio-quality sound from properly ripped CDs and high-resolution music downloads up to 192 kHz.

#### **Bass management**

No matter how well your speakers reproduce bass, they are almost certainly not located in the optimum place in your room to do so. The interaction of your speakers and the room will result in signal cancelations or dips at certain frequencies at the listening position; no amount of EQ can solve this problem. The solution is mono or stereo subwoofers, outputs for which are available from the CP-800 with selectable crossover frequency and slope in the digital domain. The result is deep, smooth bass response without adding analog circuitry to the L&R channel signal paths.

#### **PEQ**

Regardless where your speakers, subwoofer(s) and listening chair are in relation to each other, there will likely be room modes that can only be addressed with equalization. In most

rooms, the three primary dimensions contribute to three low frequency modes where the room actually increases the level causing peaks at those frequencies. The CP-800 offers parametric equalization to help address these real world problems. Performed in the digital domain, these high quality filters allow optimization of low frequency response without adding analog circuitry to the L&R channel signal paths.

#### **Tone Control**

Banished from legitimate high-end preamps since the sixties, the tone control makes a come-back in the CP-800, but with a modern implementation. Tone controls typically mean additional analog circuitry in the signal path. The CP-800 introduces a flexible tone control feature that is entirely digital. If you've ever wanted to soften a recording's top end a little or add a little warmth, you will appreciate the convenience and subtlety of the CP-800's Tilt tone control feature. After more than forty years, the tone control is back, and now it works properly and without compromise.

#### **Analog quality**

Make no mistake, the CP-800 is also our best analog preamplifier; with fully balanced circuitry and completely isolated symmetrical left and right channels, your analog sources will sound better than ever. The CP-800 makes digital processing available to all sources, but when you want pure analog, the Digital Bypass option switches off the digital clocks while the CP-800 handles the signal in the analog domain.

#### **Have it all**

The CP-800 puts world-class performance into one flexible and attractively priced chassis. Separate CD players and USB DACs require additional circuitry and interconnect cables plus a separate analog preamp, giving the CP-800 an obvious comparative advantage in both performance and value. The additional features like Bass management, PEQ and Tone Control make better real world performance a reality. If you are building a no-compromise high-end audio system, the CP-800 is unique. It is the first and only preamp/processor that lets you have it all.

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#### CP-800 Specifications

<b>Frequency response</b>	8 Hz - 200 kHz < 1 dB, stereo analog bypass 8 Hz - 20 kHz < 0.5 dB, all other sources
<b>Channel Matching</b> (left to right)	better than 0.05 dB
<b>Distortion (THD+noise)</b>	.0005%, digital source/bypassed analog source .002%, processed analog source
<b>Maximum input level</b> (single-ended)	2 Vrms (DSP), 4.5 Vrms (bypass)
<b>Maximum input level</b> (balanced)	4 Vrms (DSP), 9 Vrms (bypass)
<b>Maximum output level</b> (single-ended)	9 Vrms
<b>Maximum output level</b> (balanced)	18 Vrms
<b>Gain Range</b>	-100 dB to +14 dB
<b>Input impedance</b>	50 k $\Omega$ (balanced) 100 k $\Omega$ (single-ended)
<b>Output impedance</b> (main output)	300 $\Omega$ (balanced), 100 $\Omega$ (single-ended)
<b>Signal-to-noise ratio</b> (ref. Bal. 4 Vrms input, unweighted)	104 dB, bypassed analog source 101 dB, processed analog source 105 dB, digital source (ref. full-scale input, unweighted)
<b>Channel separation</b>	better than 100 dB
<b>Crosstalk</b> (any input to any output)	better than -130 dB @ 1 kHz
<b>Standby power consumption</b>	<1 W
<b>Rated power consumption</b>	53 W
<b>Mains Voltage</b>	90-264 V, 50/60 Hz
<b>Overall dimensions</b>	Width: 17.5" (445 mm) Depth: 17.5" (445 mm) (excluding connectors) Height: 4.78" (121 mm)

**Net weight** 23 lbs (10.43 kg)

**Shipping weight** 33 lbs (15 kg)

**Made for**  
iPod touch (5th generation) iPod nano (7th generation)  
iPod touch (4th generation) iPod nano (6th generation)  
iPod touch (3rd generation) iPod nano (5th generation)  
iPod touch (2nd generation) iPod nano (4th generation)  
iPod touch (1st generation) iPod nano (3rd generation)  
iPod classic iPod nano (2nd generation)

**Made for**  
iPhone 5 iPhone 3GS  
iPhone 4S iPhone 3G  
iPhone 4 iPhone

**Made for**  
iPad (4th generation) iPad 2  
iPad (3rd generation) iPad  
iPad mini

#### Airplay

Airplay works with iPhone, iPod, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.



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