

### CT-SSP SURROUND SOUND PROCESSOR



# CT-SSP

## SURROUND SOUND PROCESSOR

Many feel that the Classé Delta series' unique industrial design favors a shelf or open-rack stand where the full beauty of the design can be appreciated. Also, due to their size and conventional heatsink designs, Delta series amplifiers can pose complications for custom installations.

The special need to ventilate high-powered amplifiers in custom installations prompted Classé to develop the Custom Theater (CT) series. CT amplifiers employ a newly developed Intelligent Cooling Tunnel (ICTunnel™, pronounced Icy Tunnel) architecture to simplify installations and enhance both performance and reliability over the long term. The CT-SSP is designed to match this new range of amplifiers.

There is a growing consensus among home theater enthusiasts and critics that the Classé SSP-800 is the world's ultimate surround sound processor. The CT-SSP uses exactly the same circuitry as the SSP-800 and is identical in features, performance and price. The units differ in their outward appearance and chassis design, with the CT-SSP intended especially for equipment racks.

Like the SSP-800, the CT-SSP is a ten-channel preamp/processor, offering both balanced and single-ended connections for all channels.

Using HDMI 1.3b the CT-SSP offers internal decoding of Dolby TrueHD and DTS-HD Master Audio sources. Digital Signal Processing (DSP) is handled by two Texas Instruments processors, each capable of up to a remarkable 2800 MIPS (Million Instructions per Second). The DSPs operate in 64-bit double precision and use floating point arithmetic for all audio signal calculations to ensure the most accurate results possible. All bass management filters, level adjustments and parametric filters also benefit from the added precision.

Throughout the SSP-800/CT-SSP there are examples of HD technology executed at the highest quality level. It is the combination of advanced technology and genuine quality that sets them apart. And while technology and quality give the SSPs their intrinsic value, we measure their true worth first on the test bench and then in the sound room.

The wealth of knowledge applied to the SSP-800/CT-SSP design and the inspiration for its execution do not come from a textbook—they come from the passion and dedication of those who have spent their lives in the pursuit of higher performance. Classé offers the SSP-800 and CT-SSP for those who share our singular passion for performance.



## CT-SSP SURROUND SOUND PROCESSOR

### Inputs and outputs

HDMI 1.3	4 in / 2 out
Component	2 in / 1 out
S video	2 in
Composite	2 in
COAX	4 in / 1 out
Optical	4 in / 1 out
Analog XLR	1 pair in / 5 pair out
Analog RCA	1 set 7.1 in / 2 pair in / 5 pair out
DC trigger out	2
IR	1 in / 1 out
CAN Bus	1 in / 1 out
USB	1
RS-232	1

### Video measurements

Input impedance	75 ohms Composite / s video / component
Output impedance	75 ohms Component
HDMI	Fully 1.3 compliant supporting 1080p @ 24/50/60fps, 36-bit deep color and xvYCC

### Audio measurements

Maximum output level	8vrms Single ended 15vrms Balanced
Maximum input level	2vrms Single ended via DSP 6vrms Single ended via bypass 4vrms Balanced via DSP 12vrms Balanced via bypass
Output impedance	56 ohms
Input impedance	100kohms
Total harmonic distortion	0.001% Digital source / Bypassed analog source 0.002% Processed analog source

Frequency response	20Hz – 200kHz <0.1dB Stereo analog bypass 20Hz – 20kHz <0.2dB All other sources
Signal to noise ratio	102dB Bypassed analog source 100dB Processed analog source 105dB Digital source

### Audio formats

Dolby Digital Surround EX  
Dolby Digital 5.1  
Dolby Digital Plus  
Dolby TrueHD  
DTS-ES discrete  
DTS 3/2/1  
DTS 96/24  
DTS-HD High Resolution Audio  
DTS-HD Master Audio  
24bit/32-192kHz PCM

### Post processing modes

Dolby pro logic IIx  
DTS-ES matrix  
DTS Neo:6  
Mono  
Mono plus  
Stereo (downmix)  
Music plus  
Movie plus  
Party

### Video conversion

Composite / s video to component and HDMI  
Component (upto 720p-1080i) to component and HDMI  
HDMI to HDMI

### Dimensions

Width (including faceplate) 19" (483mm)  
Width (excluding faceplate) 17" (432mm)  
Depth (excluding connectors) 16.375" (416mm)  
Height 6.97" (177mm)  
Gross weight 49lb (22.3kg)  
Net weight 33lb (15kg)

