CLASSÉ

SSP-800
SURROUND SOUND PROCESSOR

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NOW WITH FULLY FEATURED **HDMI 1.4**

The surround sound processor is the core of a high-end home theater system. It is the conduit through which all source signals flow and it performs the critical tasks of decoding various audio formats, converting digital signals to analog, and then pre-amplifying the analog signals in as pure a manner as possible. It must allow high definition video to pass through uncorrupted. A surround sound processer can either limit or gloriously reveal the full potential of every component in the home theater system. Proliferation of the latest high-definition audio and video technologies served as the inspiration for a new challenge: the creation of the definitive SSP—a surround sound processor to set the standard for the high definition era. The result is the SSP-800, Classé's statement preamp/processor.

The SSP-800 is a ten-channel preamp/processor, offering both balanced and single-ended connections for all channels. Audio Digital Signal Processing (DSP) is handled by Texas Instruments processors, which operate in 64-bit double precision. Floating point arithmetic is used for all audio signal calculations to ensure the most accurate results possible. All bass management filters, level adjustments and parametric EQ filters also benefit from the added precision. Two DSPs, each rated at 2800 MIPS (Million Instructions per Second) provide HD Audio decoding and the power to handle a vast array of post processing features at full resolution.

Powerful DSP is only one of many of the SSP-800's outstanding qualities. Throughout the SSP-800 are examples of cutting edge technology and superior design techniques, employed in the service of better sound. We evaluate performance by listening to music, which remains the most reliable method of judging sound quality. In fact, no surround processor can accurately reproduce movie sound if it fails to reproduce music properly. At Classé, our first priority is developing components that perform exceptionally well with music—this is our heritage from the first component we manufactured more than thirty years ago. We then turn our attention to processor decoding capabilities and developing features that enhance flexibility and in-room performance.

In addition to high performance, quality and technology, the SSP-800 offers the flexibility to handle a wide range of real world applications. Its ten-channel design creates the possibility of configuring two channels for additional subwoofers, as mirrors of the front left and right channels for bi-amplifying, or delivering audio to a separate room or system. Five-band manual parametric equalization is provided for each of the ten channels to help tune the system to its environment. Menu driven front panel controls allow a high degree of customization for an ideal user experience.

The SSP-800 has found its way into the AV systems of countless industry professionals and enthusiasts around the world.* It has met its design objective, becoming the de facto standard for high-performance multichannel processing.

* Also available in our rack-friendly Custom Theater chassis.

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Inputs and outputs

HDMI 1.4	5 in / 2 out
Component	2 in / 1 out
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 / component
Output impedance	75 ohms Component
HDMI	Fully 1.4 compliant supporting ARC, HEC, 3D video up to 1080p @ 24 fps, 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 to component and HDMI
Component (upto 720p-1080i) to component and HDMI
HDMI to HDMI

Dimensions

Width	17.5″ (445mm)
Depth	16.5″ (419mm) (excluding connectors)
Height	6.75″ (172mm)
Net weight	29 lb (13 kg)
Shipping weight	38 lb (17 kg)

DOLBY TRUEHD

dts-HD Master Audio