



CP650DC Digital Cinema Processor

The Dolby CP650DC is the best investment you can make in a processor for your digital cinema installation.

The Dolby® CP650DC is a version of the Dolby CP650 Cinema Processor designed specifically for use in digital cinema installations. The CP650DC does not support 35 mm film, but retains all the features of the renowned Dolby CP650, including a familiar installation procedure. It adds out-of-the-box support for PCM, Dolby Digital, and Surround EX™ bitstreams, and a new low cost.

Three Configurations

The CP650DC is a CP650 minus the optical film and digital reader inputs. A 4 x AES input (75 ohm, single ended) is supplied for connection to any brand of server, and the unit includes “global audio delay” to ensure correct synchronization with any D-cinema or other projector. The CP650DC is the simplest and most cost effective way to add the power of a CP650 to your digital cinema installation.

The CP650DCXO comes with an integrated crossover feature which adds two- or three-way digital speaker crossovers for your L, C, and R screen speakers. This makes the CP650DCXO ideal for high-quality installations, ensuring that the crossover parameters are optimized to your speakers. The CP650DCXO also provides full-range analog outputs for Le and Re screen speakers.

For cinemas requiring external digital crossovers or converters, or those installing digital power amplifiers, the CP650DCD provides five AES digital outputs (110 ohm, balanced), including Le and Re screen speakers.

Other Features

All CP650DC units offer built-in installation tools, including a real-time analyzer and the unique EQ Assist™ system, to significantly reduce alignment time using either the PC-based setup software or the front-panel controls. Any software upgrades can be applied quickly and simply using a PC.

The Auditorium Assist™ feature checks for deviation from the sound system’s initial calibration and will provide alert status for speaker or amplifier problems.

- Dedicated digital-cinema-only processor
- Connects to all servers’ digital outputs
- 5 x AES digital output available as option
- Global delay for correct sync with video
- Dolby Surround EX decoding standard
- Analog hearing-impaired output

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As with all CP650 units, the network connection on the CP650DC also allows for remote control of the unit's format and fader settings when used in conjunction with the Dolby Theatre Management software of the Dolby Digital Cinema system.

The Simplest Installation Provides the Best Quality

The CP650DCXO model provides the opportunity to simplify your installation while improving final audio quality.

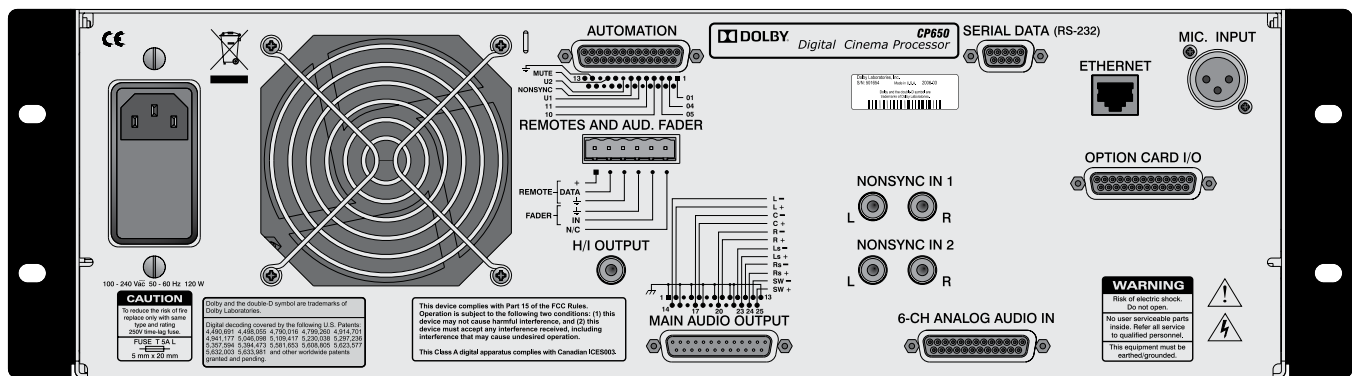
It is well known that bi- or tri-amplification improves audio performance by driving each loudspeaker with its own amplifier, which allows for better damping control and a much more complex "active digital filter" at the input.

While a number of loudspeaker manufacturers provide electronic crossover units, in most cases these will require additional A/D conversion. No matter how good the converters, each A/D conversion stage will further degrade the quality of the audio. Even with a digital output, as used on the CP650DCD, the requirement to ensure that clipping doesn't occur throughout the spectrum (regardless of the equalization and without wasting headroom) is rarely achieved in even the best-engineered installations. Levels that have not been

optimized can produce reduced dynamic range and increased distortion, both at low levels and during signal peaks. However, optimization is tricky and time consuming—unless you have the CP650DCXO.

The CP650DCXO has software that will ensure that you can operate your system at the optimum point to obtain full dynamic range without any risk of increased distortion or noise, regardless of equalization changes. The CP650DCXO's ease of use, combined with its advanced filter design, enables quick and simple equalization of a cinema to ISO 2969 requirements to ensure quality audio for all your customers.

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