

CP750 Digital Cinema Processor

The Latest in Sound Processing—from Dolby Digital Cinema

The CP750 is Dolby's latest cinema processor specifically designed to work within the new digital cinema environment. The CP750 receives and processes audio from multiple digital audio sources and can be monitored and controlled from anywhere in the network. Plus, Dolby reliability ensures a great moviegoing experience every time.

The Dolby[®] CP750 provides easy-tooperate audio control in digital cinema environments equipped with the latest technology while integrating seamlessly with existing technologies. The CP750 supports the innovative Dolby Surround 7.1 premium surround sound format, and will receive and process audio from multiple digital audio sources, including a digital cinema server, preshow servers, and alternative content sources. The CP750 is NOC (network operations center) ready and can be monitored and controlled anywhere on the network for status and function. The CP750 integrates with Dolby Show Manager software, enabling it to process digital input selection and volume cues within a show, real-time volume control from any Dolby Show Manager client, and ASCII commands from third-party controllers. Moreover, Dolby Surround 7.1 (D-cinema audio), 5.1 digital PCM (D-cinema audio), Dolby Digital Surround EX[™] (bitstream), Dolby Digital (bitstream), Dolby Pro Logic[®] II, and Dolby Pro Logic decoding are all included to deliver the best in surround sound from all content sources.



CP750 Digital Cinema Processor

Audio Inputs

Digital 1 Input

4 x AES 25-pin female D-connector provides four AES/EBU channel pair inputs Input impedance: 110Ω balanced

Digital 2, 3 Inputs

1 x AES male BNC connectors, unbalanced but floating, per AES-3id-1995/SMPTE 276M Input impedance: 75Ω

Digital 4 Input

Optical Toslink™ connector

Multichannel Analog Input

Eight-channel 25-pin female D-connector, balanced analog, 10 kΩ differential input impedance Reference level: 300 mV

Nonsync Input

Two-channel RCA connector, 21 kΩ input impedance, adjustable input level

Microphone Input

XLR connector, standard pinout, $10 \ k\Omega$ differential input impedance, $12 \ V$ phantom power available, adjustable gain

Audio Outputs

Main Audio Output

Eight-channel 25-pin male D-connector, balanced floating analog, 100Ω differential output impedance Do not load with less than 600Ω differential

Auxiliary Output

Two-channel, unbalanced analog, 100Ω output impedance, RCA connectors Reference level: 200 mV

Always routes channel pair 7/8 of 4 x AES input for alternate uses such as H/I and VI-N transmitters—this fixed-level output has no EQ and is not controlled by the fader

Hearing-Impaired Output

One-channel, unbalanced analog, 100Ω output impedance, RCA connector Center weighted sum of Left, Center, and Right channels Output level: 200 mV

Other Inputs/Outputs

Ethernet Connector

RJ-45 for network connection and PC setup software

Automation Connector

25-pin female D-connector, floating ground

RS-232 Serial Port

9-pin female D-connector

Remote Connector

RJ-45 connector for use with optional Cat. No. 868 Remote Fader (not an Ethernet connection)

Backup Power Port

4-pin female XLR connector for use with optional Cat. No. 994 External Power Supply

AC Input

Simple unswitched IEC power inlet module

USB Port

For connection to PC to run setup software

Audio Processing

РСМ

44.1, 48, and 96 kHz; 16-, 20-, and 24-bit

Dolby Digital (AC-3) Up to 5.1 channels

Dolby Pro Logic L, C, R, and S (SW configurable)

Dolby Pro Logic II L, C, R, Ls, and Rs (SW configurable)

Dolby Surround EX

L, C, R, Ls, Rs, Bsl, Bsr, and SW

Dolby Surround 7.1

L, C, R, Ls, Rs, Bsl, Bsr, and SW

Nonsync L, R, and S (SW configurable)

Other Parameters

Global Audio Delay

All input sources separately adjustable from 0–250 ms

Surround Delay

Digital surround delay: 0–150 ms Dolby Pro Logic surround delay: 0–150 ms

Other Parameters (continued)

Equalization

Eight-channel 1/3-octave plus parametric for SW

Dynamic Range

Typically 105 dB clip to CCIR/ARM weighted without noise optimizer enabled, up to 10 dB more with optimizer enabled

Distortion

Typically 0.005% from eight-channel analog input to main output

Optional Accessories

Cat. No. 994 External Backup Power Supply Cat. No. 868 Remote Fader CP750-CK Connector Kit CP750 Installation Manual (DPN 9110270)

Power Requirements

100–240 VAC, 50–60 Hz

Dimensions and Weight

2-U rackmount chassis: 89 x 432 mm (3.5 x 17 inches) Overall depth, including connectors and fader knob: 269 mm (10.6 inches) Depth behind rack ears, including connectors: 248 mm (9.75 inches) Depth in front of rack ear mounting surface: 24 mm (0.94 inches) Net: 4.2 kg (9.4 lb)

Environmental Conditions

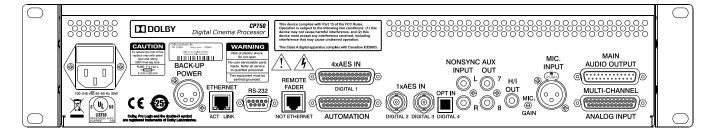
Operating: 0°C-40°C (32°F-104°F) Humidity: 20%-80% relative humidity (noncondensing)

Regulatory Notices

North America: This unit complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules, and Industry Canada ICES-003 specifications. It is UL Listed for the US and Canada.

Europe: This unit complies with the requirements of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC and carries the CE marking accordingly.

Visit www.dolby.com/warranty for the latest product warranty information.



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