

DOLBY CP45

CINEMA PROCESSOR

Thanks to the compact, cost-effective Dolby CP45 Cinema Processor, even the smallest of cinemas on the tightest of budgets can install a Dolby sound processor. This means that the audience can hear analog Dolby soundtracks as they were meant to be heard, and you can use the widely recognized Dolby logo to promote your commitment to a quality motion picture experience.

At the heart of the CP45 is genuine Dolby processing for Dolby SR analog soundtracks, which are standard on all 35 mm release prints today, including those that also have digital tracks. With the CP45, any cinema can afford to play back Dolby SR soundtracks with outstanding clarity and fidelity. Dolby A-type noise reduction is also included for older prints.

The cost-effectiveness of the CP45 results in part from the use of integrated circuits developed in response to the wide demand for Dolby technologies. It also benefits from a simplified power-supply design, and a new approach to speaker EQ that features seven bands for each screen channel, plus tunable

high- and low-frequency shelving controls. Selectable electronic crossovers for biamplifying the screen channels are also built in.

With the addition of the Dolby DA20 Digital Film Sound Processor, the CP45 can be used to play back Dolby Digital soundtracks. However, cinemas intending to equip for Dolby Digital within a foreseeable timeframe should start with the more flexible Dolby CP650SR processor, which can be upgraded to Dolby Digital and Dolby Digital Surround EX simply by adding an upgrade kit.

As with all Dolby sound processors, the purchase of a CP45 includes the unrivaled support of Dolby Laboratories. Hundreds of technicians worldwide have been trained by Dolby engineers in the installation and maintenance of Dolby equipment. Emergency technical assistance is available on call, as is backup from the most experienced distributor network in the industry. The CP45 is the only cinema processor in its price range backed by a decades-long history of making films sound better.



Dolby Laboratories, Inc. 100 Potrero Avenue, San Francisco, CA 94103-4813 Telephone 415-558-0200 Fax 415-863-1373

Wootton Bassett, Wiltshire SN4 8QJ, England Telephone (44) 1793-842100 Fax (44) 1793-842101

For additional information, contact salesadmin@dolby.com www.dolby.com

DOLBY CP45

CINEMA PROCESSOR

CP45 Specifications

Construction

3-U rack-mount chassis with plug-in modules accessible behind hinged front panel

Signal Connections

Standard screw-type connectors for audio signals and projector changeover control signals; automation connections via 15-pin D-connector

Signal Inputs

Optical: Balanced inputs for two projectors equipped with stereo solar cells; adjustable slit-loss EQ circuitry for flat response from virtually any type of optical soundhead; cells available from Dolby Laboratories mounted on brackets for most projector types

Digital/Magnetic/Aux: Six-channel input for use with external digital adapter, magnetic preamp, or auxiliary source; 300 mV operating level

Nonsync: One pair of inputs for stereo nonsync source, 10 k Ω nominal input impedance, 30 mV maximum input sensitivity; internal 2:4 decoder may be used to generate ambient information for surround speakers from stereo sources

Mic: Balanced input for dynamic microphone; 1 k Ω nominal input impedance

Signal Outputs

Output impedance: 150 Ω (load >600 Ω)

Maximum level: 8.2 dBu (2 V)

Dolby level output adjust range: -38 to -12 dBu (10-200 mV)

Output for hearing-impaired: Center-weighted sum of L, C, R for connection to auxiliary hearing-impaired system; output impedance 2.5 k Ω

Dolby Decoding

Two-channel Dolby A-type/Dolby SR processing for film soundtracks; 2:4 channel decoder derives L, C, R, and S channels from two tracks on Dolby A-type or Dolby SR optical prints, and can decode the Nonsync 1 input; incorporates an adjustable delay line to optimize front-to-back surround separation

Loudspeaker Equalization

Equalizers for left, center, and right screen speakers provide ± 10 dB high- and low-frequency controls with adjustable turnover frequency, plus seven adjustable ± 8 dB narrowband filters covering 63 Hz to 1.8 kHz

Surround EQ provides bass, mid-frequency, and

treble adjustments for Ls and Rs channels, 50 or 100 Hz lowpass filter for subwoofer channel

Noise Level

Typically -65 dB (CCIR/ARM weighted) referenced to Dolby level

Distortion

Typically <0.15%, any channel, 1 kHz, at Dolby level (50% modulation)

Accessories

Cat. No. 515 Second Surround Channel Module

Cat. No. 516 Remote Fader

Cat. No. 545 Automation Interface Adapter

Power Requirements

Power supplied via two outboard transformers included

Normal transformer supply 24 VAC, 1A

Bypass transformer supply 24 VAC, 200 mA

Dimensions and Weight

3-U rack-mount: 133 x 483 mm (5.25 x 19 inches); maximum projection behind mounting surface:

308 mm (12.1 inches); maximum projection in front

of mounting surface: 40 mm (1.6 inches)

Net: 10.1 kg (22.3 lb)

Environmental Conditions

0° to 40° C (32° to 104° F)

Regulatory Notices

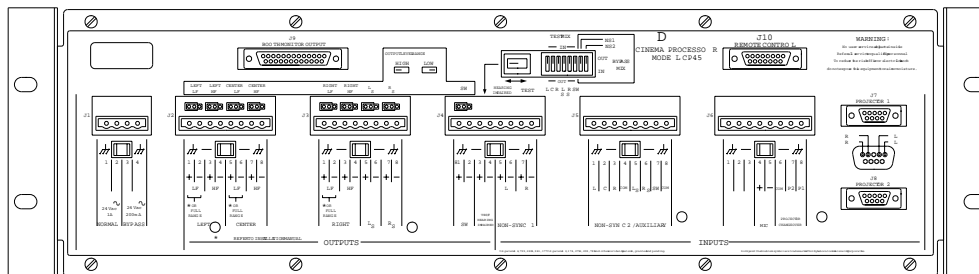
North America: This unit complies with the limits for a Class A digital device pursuant to Part 15 of the FCC rules. The unit also complies with Industry Canada ICES-003 Class A requirements, and is UL Listed for both US and Canada.

Europe: This unit complies with the requirements of Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC, and carries the CE marking accordingly.

Warranty

One-year limited, parts and labor; see disclaimer below

Specifications subject to change without notice. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. Surround EX is a trademark of Dolby Laboratories. All other trademarks remain the property of their respective owners. © 2001 Dolby Laboratories, Inc. S01/13872



DISCLAIMER OF WARRANTIES:

Equipment manufactured by Dolby Laboratories is warranted against defects in materials and workmanship for a period of one year from the date of purchase. There are no other express or implied warranties and no warranty of merchantability or fitness for a particular purpose.

LIMITATION OF LIABILITY:

It is understood and agreed that Dolby Laboratories' liability, whether in contract, in tort, under any warranty, in negligence, or otherwise, shall not exceed the cost of repair or replacement of the defective components and under no circumstances shall Dolby Laboratories be liable for incidental, special, direct, indirect, or consequential damages (including but not limited to damage to software or recorded audio or visual material), or loss of use, revenue, or profit, even if Dolby Laboratories or its agents have been advised, orally or in writing, of the possibility of such damages.