



## CP45 Cinema Processor



### The Dolby CP45 Cinema Processor will provide your cinema with big sound on a small budget.

The cost-effective Dolby® CP45 lets your audiences hear Dolby SR and A-type analog soundtracks as they were meant to be heard, and it lets you provide and promote a quality presentation on every screen in your multiplex.

With the CP45, you don't have to sacrifice performance for lower cost. It features genuine Dolby SR processing to reproduce with outstanding clarity and fidelity the Dolby SR analog soundtracks that are standard today on all 35 mm release prints. Add a Dolby DA2o Digital Adapter, and you can also play back Dolby Digital soundtracks.

Operation of the CP45 is simplicity itself, with straightforward push-button format selection. Built-in electronic crossovers permit bi-amplifying two-way screen speakers for maximum

performance. Available options include a remote fader/format selector control (Dolby Cat. No. 516) and an adapter (Dolby Cat. No. 545) that simplifies interfacing the CP45 with your cinema's automation system and/or a Dolby DA2o Digital Adapter.

The strongest product support in the business comes standard with every Dolby product. We offer easily accessible online and telephone technical support, and we regularly conduct training seminars to teach installation and service personnel how to get the best results with our cinema processors, and cinema sound systems in general. Your Dolby representative can provide more information on our support services.

# Dolby CP45 Cinema Processor

## CP45 Front Panel

### Main Fader

### Fader Active Button/Indicator

### Active Projector Indicators

Projector 1

Projector 2

### Format Buttons/Indicators

Mono

Dolby A-type

Dolby SR

Nonsync 1 (two-channel)

Aux/Nonsync 2 (six-channel; selects Dolby Digital format with DA20)

Mic

### Signal Presence Indicators

L, C, R, S, SW

### Bypass Indicator

Flashes when CP45 is in Bypass mode  
(CP45 switches to Bypass automatically if internal power supply fails)

### Manual Bypass Switch

## CP45 Front Panel

### Booth Monitor Output

25-pin female D-connector duplicating main audio output terminals (configured by installer)

### Audio Outputs

Terminal strip connectors

L, C, R, Ls, Rs, SW

(separate LF and HF outputs available for bi-amplifying L, C, R)

Output impedance: 150 Ω (load >500 Ω)

Maximum level: 8.2 dBu (2 V)

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

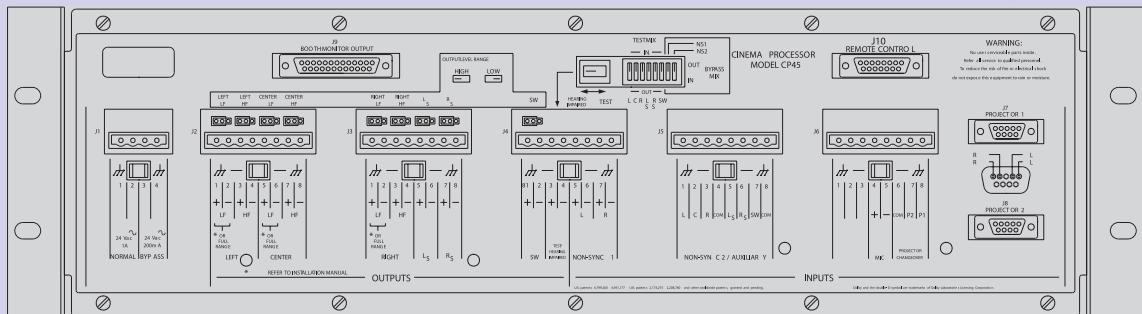
### Hearing impaired

Summed output of L, C, R (30 mV)

Output impedance: 2.5 kΩ

### Audio Inputs

Terminal strip connectors



Nonsync 1: stereo (for DVD player, cassette player, and so on)  
Nominal input impedance: 10 kΩ

Maximum input sensitivity: 30 mV

Nonsync 2/Aux: six-channel (for digital adapter or mag preamps)  
Operating level: 300 mV

Mic: balanced, for dynamic microphone  
Nominal input impedance: 1 kΩ

### Remote Control Input

15-pin female D-connector (suitable for Cat. No. 516 Remote)

Optional Cat. No. 545 Automation Interface Adapter (not available in all markets) plugs in above connector and provides:

Terminal strip connector for automation system

25-pin female D-type connector for DA20 format control

15-pin female D-type connector for Cat. No. 516 Remote

### Projector Inputs

9-pin female D-connectors for two stereo solar cells or analog LED readers

### Construction

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

### Dolby Decoding

Two channels Dolby SR and A-type processing  
2:4 channel (L, C, R, S) matrix decoding

### Loudspeaker Equalization

L, C, R: ±10 dB high- and low-frequency controls with adjustable turnover frequency, plus seven adjustable ±8 dB narrowband filters covering from 63 Hz to 2 kHz

S: bass, mid-frequency, and treble adjustments  
SW: 50 or 100 Hz lowpass filter

### Distortion

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

### Noise Level

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

### Accessories

Cat. No. 516 Remote Control Unit (fader, format selector)

Cat. No. 545 Automation Interface Adapter (not available in all markets)

### Power Requirements

Power supplied by two outboard transformers:

Normal 24 Vac at 1A

Bypass 24 Vac at 200 mA

### Fuse

20 mm, 1.5A slow blow

Spare provided

### Dimensions and Weight

3-U rackmount chassis; 133 × 483 mm (5.25 × 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, 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 73/23/EEC and EMC Directive 89/336/EEC and carries the CE marking accordingly.

### Warranty

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

Specifications subject to change without notice.

### 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 and implied warranties and no warranty of merchantability or fitness for a particular purpose, or of noninfringement of third-party patents.

### 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 or accused infringing devices, 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), cost of defense, 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.

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

© 2004 Dolby Laboratories, Inc. All rights reserved. S04/13872/15244  
Part No. 91415 Issue 4