

DOLBY CP65

CINEMA PROCESSOR



t

he CP65 is the most popular Dolby cinema processor ever. Worldwide, it has been installed in more than 11,000 cinemas committed to quality presentation, earning an enviable reputation for high quality, long-term reliability, and ease of operation.

The CP65 is equipped as standard to play all Dolby A-type and Dolby SR soundtracks, including the SR soundtracks provided on all Dolby Digital prints. With a dynamic range able to accommodate even the most demanding SR mixes, the CP65 provides near-digital clarity and fidelity.

The most flexible analog processor

The CP65 is the ideal choice for theatres planning to equip later for Dolby Digital playback.* It not only can interface with the Dolby DA20 Digital Adapter, but also has the high performance necessary to take full advantage of digital soundtracks. It can interface with other formats (up to six channels) as well, and with all current and likely future theatre automation systems.

Among its many high-performance features is third-octave screen speaker equalization, which ensures accurate response even in theatres with out of the ordinary acoustical properties. The CP65 also features fully modular construction that both facilitates on-site service and provides an extra margin of safety for keeping the show on the air.

Professional Dolby standards

The CP65 is built to the same high standards as the professional Dolby equipment used in recording all Dolby films, and incorporates the advanced circuitry necessary to complement the techniques used in their preparation. Thus the CP65, in the long tradition of cinema processors from Dolby Laboratories, faithfully reproduces soundtracks as heard originally in the dubbing theatre.



With the CP65, you also get unrivaled after-sale support. Hundreds of technicians worldwide have been factory trained 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 CP65 is the only processor of its type backed by a 20 year history of making films sound better. CP65 features

- Accommodates two projectors.
- Processing for both Dolby A-type and Dolby SR soundtracks.
- 27-band, third-octave screen speaker equalization, plus parametric equalization for surround speakers.
- Non-sync input for intermission music program source.
- Format selection pushbuttons with LED's.
- Signal-presence and power supply indicators to assist trouble shooting.
- Emergency bypass circuit with its own power supply.
- Six-channel input and fader to optimize interface with Dolby DA20 Digital Adapter.
- Combined left, center, and right output for use with hearing impaired systems.
- Optional Dolby 70 mm magnetic playback (format 42).

*For theatres requiring both analog and digital playback at the outset, the integrated Dolby CP500 digital processor may be a more cost-effective choice.

SPECIFICATIONS

Construction

Rack-mount chassis frame construction with plug-in modules accessible behind hinged front panel.

Signal connections

Standard screw-type terminal blocks for audio signals and control connections for projector changeover, remote units, etc. Solder-tag fanning strip supplied for each terminal block. Automation connections via 25-way D-type or screw-type terminal blocks.

Signal Inputs

- Optical: Balanced inputs for two projectors with stereo solar cells.
- Magnetic/Aux: six inputs for use with external magnetic preamplifier or auxiliary source, internally-selected 100 mV or 1 V operating level.
- Non sync: two inputs for stereo non sync source. 50 k input impedance, 200 mV maximum input sensitivity.
- Digital: six inputs for use with Dolby DA20 Digital Adapter.

Signal outputs

Output impedance, 22 Ohms. Load, >600 Ohms. Maximum output, +16 dBu. Typical operating level, -6 dBu. Operating range, 10 mV to 1.3 V.

Hearing-impaired output: Center-weighted sum of L, C, R. Output impedance, 5K Ohms.

Noise reduction

Two channels each, Dolby A-type, and Dolby SR. Accommodates up to four channels of A-type for standard Dolby 70 mm magnetic (Format 42).

Loudspeaker equalization

L,C, R: 27-band 1/3-octave EQ plus bass and treble adjustments.

Ls, Rs: Mid-frequency parametric EQ plus bass and treble adjustments.

SW: Parametric EQ.

Remote facilities

Connections for one or more remote faders and format switches.

Noise level*

Typically -70 dB (CCIR/ARM weighted) referenced to Dolby level.

Distortion*

Any channel, 1 kHz: typically less than 0.15% at Dolby Level (50% modulation).

Dimensions

4 U rack mount chassis. Faceplate, 78 x 483 mm (7 x 19"). Maximum projection behind mounting surface, 280 mm (11"). Maximum projection in front of mounting surface, 40 mm (1.6"). Weight, 10.1 kgs (22.3 lbs).

Power Requirements

Switched 100/120/140/ 200/220/240 V AC 50-60 Hz, 90 W. Fuses: 1-1/4", 1.25 A slow blow for 100/110/120 volts; 20 mm T630 mA slow blow for 200/220/240 volts.

Ambient operating temperature

Up to 40 degrees C.

Options

Cat. No. 123 (master) and Cat. No. 122 (slave) remote faders.

*With fader at 7 (approximately 10 dB below maximum), output set for -6 dBu (0.775 V) at Dolby level, Dolby A-type selected, equalizers set to flat.



Dolby Laboratories Inc.
100 Potrero Avenue, San Francisco, CA 94103-4813
Telephone 415-558-0200 Facsimile 415-863-1373
Wootton Bassett Wiltshire SN4 8QJ England
Telephone 01793-842100 Fax 01793-842101
Dolby and the double-D symbol are trademarks of
Dolby Laboratories Licensing Corporation
©1996 Dolby Laboratories Inc. S96/10824