

DOLBY SA10

SURROUND ADAPTER

The Dolby SA10 adapter upgrades any existing 5.1-channel digital cinema sound system to play back the three surround channels on digital prints prepared using the Dolby Digital Surround EX process.

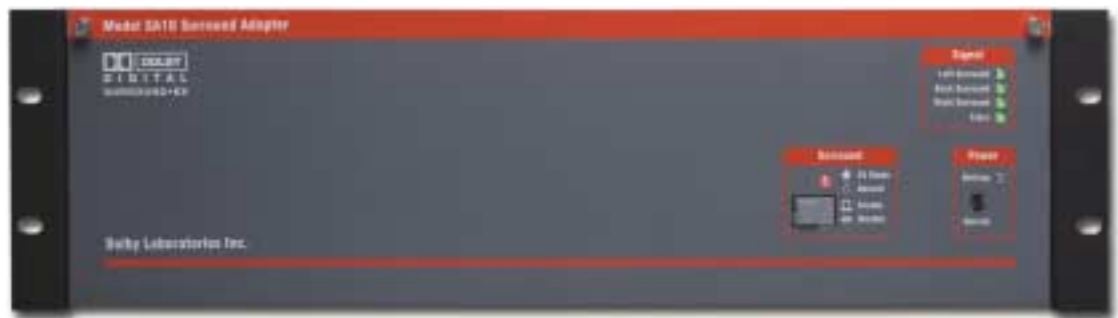
With Dolby Digital Surround EX, a center surround channel is reproduced by the speaker array at the back of the theatre, while left and right surround is reproduced by the side arrays. This configuration enables true 360-degree pans, more realistic front-to-back and back-to-front transitions, and ambient sound reproduction that is less affected by the width of the cinema.

In most cases, equipping an existing 5.1-channel digital installation for Dolby Digital Surround EX is simple and economical. All it usually requires is wiring the surround speakers into left, left back, right back, and right groups; providing additional surround amplification; and installing the SA10 in the booth between the existing cinema sound processor and the power amplifiers. Dolby Digital Surround EX playback

may be selected manually by the projectionist, or automatically by means of a digital data flag that film producers can incorporate into the soundtracks of Dolby Digital Surround EX releases.

For each of the three surround channels, the SA10 provides seven-band equalizers operating in conjunction with tunable high- and low-frequency shelves to ensure smooth surround-speaker response to the international standard curve. Front-panel controls include a mode selector (5.1 or Dolby Digital Surround EX), signal-present channel indicators, and a backup power supply selector. Rear-panel connections make it possible to select the Dolby Digital Surround EX mode remotely with automation systems.

Dolby Digital Surround EX gives mixers a new level of creative freedom and audiences a new sense of involvement with the action on the screen. For a complete listing of upcoming Dolby Digital Surround EX titles, please visit www.dolby.com/coming.html.



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SA10 Specifications

Construction

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

Signal Connections

Standard screw-type connectors for audio signal inputs; output audio signals provided via 25-pin D-connector; automation control signals and digital film sound data connection for Auto Surround EX switching provided via a 25-pin D-connector

Signal Inputs

Ls and Rs inputs, 10 k Ω nominal input impedance, 120 mV nominal input sensitivity for operating level

Signal Outputs

Output impedance: 150 Ω ; load greater than 600 Ω ; maximum output level, +8 dBu. Typical operating level, -18 dBu; operating levels from 10 to 200 mV accommodated

Loudspeaker Equalization

Equalizers for left surround, back surround, and right surround speakers provide ± 10 dB high- and low-frequency controls with adjustable turnover frequency, plus seven adjustable ± 6 dB octave band filters covering 120 Hz to 8 kHz

Distortion

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

Dynamic Range

Typically 88 dB

Accessories

Hookup cable kits or individual control cables are available. Check with your dealer or contact Dolby Laboratories for availability.

Part Numbers for US Customers

Part No. CSA/500: Cable set for the CP500 Cinema Processor

Part No. CSA/65: Cable set for the CP65 Cinema Processor

Part No. CSA/200: Cable set for the CP200 Cinema Processor (Note: Cat. No. 845 cable is required)

Part No. CSA/55: Cable set for the CP55 Cinema Processor

Part No. CSA/45: Cable set for the CP45 Cinema Processor

Part No. 83416: Cable assembly for Auto Surround EX switching

Power Requirements

Power supplied via two outboard transformers (one main, one emergency backup)

Main supply: 24 VAC, 600 mA

Backup 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 (12.19 inches); maximum projection in

front of mounting surface: 12.7 mm (0.5 inches)

Net: 10.1 kg (22.3 lb)

Environmental Conditions

Operating temperature: Up to 40 $^{\circ}$ C (104 $^{\circ}$ 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.

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.

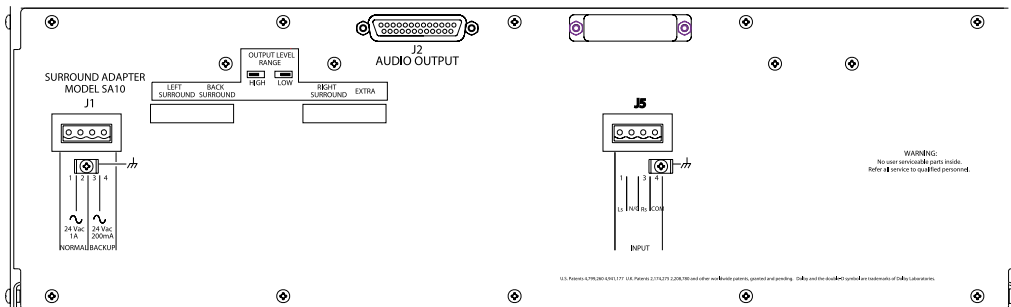
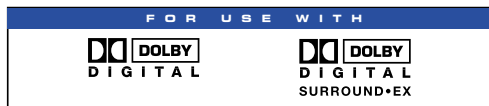
Warranty

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

Specifications subject to change without notice.

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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.