The DP572 Dolby® E Decoder is designed to ease the transition by DTV broadcasters and program producers from two-channel to multichannel audio. The DP572 decodes up to eight channels of high-quality audio, plus Dolby Digital metadata, from a Dolby E signal encoded on a single AES3 pair, external fiber, satellite link, digital videotape, digital audiotape, or from a video server. It is easily integrated into postproduction and broadcast facilities. The DP572 can accept both PCM and Dolby E signals and can switch automatically to provide seamless integration of multichannel and archived stereo programming.

Dolby E Advantages
With Dolby E, coded audio frames match video frames, ensuring that audio-follow-video edits are free of mutes, glitches, or other aberrations. This makes it possible to switch, route, and perform edits directly on the digital bitstream without decoding and reencoding. Dolby E audio also carries Dolby Digital metadata generated by the program’s producers for final delivery to the home viewer’s Dolby Digital decoder.

In multichannel programming, a “5.1 + 2” Dolby E configuration is typically used, with six of the eight channels carrying a 5.1 program and the other two an Lt/Rt (matrix surround-encoded) or stereo two-channel program. Alternate channel configurations are available for multilingual or other specialized applications. Front-panel status LEDs and the LCD indicate the configuration of the Dolby E source signal.

In addition to inputs for Dolby E audio, a second input, PCM delay, has multiple functions. These include insertion of a voiceover into the decoded Dolby E program, insertion of local stereo audio without the need for additional equipment, or automation of switching between stereo and multichannel programming within a transmission chain. When using this input, the DP572 creates appropriate metadata to automate the rest of the Dolby broadcast audio chain. The DP572 requires a standard video black reference signal, and can also be utilized in 24-frame applications when accompanied with the DP579 Dolby E Tri-Level Sync Interface. Outputs are provided for SMPTE timecode.

For a complete Dolby E broadcast solution, the DP571 Dolby E Encoder is the ideal companion unit.
Digital Audio Input
BNC female with loop-through, unbalanced, 75Ω, signal levels per AES-3ID-1995 (SMPTE 276M) specifications, external 75Ω termination required.

Digital Audio Outputs
Two BNC female connectors for each output: 1/2, 3/4, 5/6, 7/8; unbalanced, 75Ω, signal levels per AES-3ID-1995 (SMPTE 276M).

Video Reference Input
BNC female with loop-through, unbalanced, NTSC program or black for 29.97 fps, PAL program or black for 25 fps; Dolby Black for 24 fps; 23.98, 24, 30 fps when using a DP579 Dolby E Tri-Level Sync Interface; signal levels per SMPTE 154, external 75Ω termination required.

PCM In/Delay Out Port
Two BNC female, unbalanced, 75Ω, signal levels per AES-3ID-1995 (SMPTE 276M).

Linear Timecode Output Port
BNC female, unbalanced, per SMPTE 12M.

RS-232 Serial Remote Port
8-pin female mini-DIN connector for remote control and software upgrades.

Headphone Output
6.35 mm (1/4-inch) standard stereo headphone jack for confidence monitoring.

Power Requirements
90–264 VAC, 50–60 Hz, auto-sensing, 15 W maximum; designed to operate from a centrally switched power source.

Dimensions and Weight
1-U rackmount: 44 × 483 × 324 mm (1.75 × 19 × 12.75 inches)
Net: 2.7 kg (5.9 lb)

Environmental Conditions
Operating: 0°C–50°C (32°F–122°F), natural convection cooling 0%–98% relative humidity (noncondensing)
Nonoperating: –20°C to 70°C (–4°F to 158°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 Class A requirements. 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 or implied warranties and no warranty of merchantability or fitness for a particular purpose, or of noninfringement of third-party rights (including, but not limited to, copyright and patent rights).

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.

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