

DP562

MULTICHANNEL DOLBY DIGITAL DECODER

The DP562 is the reference multichannel decoder. It enables production, mastering, and broadcast facilities to monitor audio, video, and multimedia programs with Dolby Digital and Dolby Surround soundtracks. With features tailored to professional users, the DP562 is an essential production tool for both Dolby Surround formats and those with Dolby Digital audio, in products such as DVD and DTV.

The DP562 decodes Dolby Digital program material with up to 5.1 channels. It also provides four-channel Dolby Surround Pro Logic decoding for matrix-encoded surround material. The Pro Logic decoder has been implemented digitally, making it possible to monitor Dolby Surround encoded PCM soundtracks in a studio setting without converting them to analog for surround decoding.

The single-rackspace DP562 allows manual selection from four decoding modes: Dolby Digital, Dolby Pro Logic, Dolby Digital + Pro Logic, and PCM pass-through. It can also be configured to switch automatically to the Dolby Digital mode when a Dolby Digital bitstream is detected; bitstream parameters are displayed on a two-line, 16-character LCD. Front-panel controls allow selection of the various compression modes for

The DP562 also makes it possible to monitor Dolby Digital's unique downmixing capabilities. For example, in the Dolby Digital + Pro Logic mode, a 5.1-channel Dolby Digital input signal is automatically downmixed to a two-channel (Lt/Rt) signal encoded in Dolby Surround, then processed through the Pro Logic decoder. This permits producers to verify what a home listener would hear from material transmitted with 5.1 channels, but received by a two-channel Dolby Digital decoder connected to a playback system with Pro Logic decoding.

Other modes make it possible to monitor what multichannel program material will sound like when played on multichannel, mono, or stereo systems; surround systems without a center channel; and systems with a center speaker but no surrounds.

To set up the correct monitoring environment, the DP562 offers full bandwidth and band-limited pink noise, individual channel level trims, and center and surround channel delays. The DP562 also has comprehensive bass redirection capabilities. For encoding Dolby Digital material, the Dolby DP569 reference Dolby Digital multichannel encoder is an ideal companion to the DP562.



Dolby Digital's Dynamic Range Control and Dialogue Normalization features. A rear-panel interface provides remote control, permitting integration into automated facilities.



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DP562 Specifications

Audio Sampling Rates

32, 44.1, or 48 kHz
Output sample rate follows input

Frequency Response

Digital outputs: 20 Hz–20 kHz ± 0.01 dB
Analog outputs: 20 Hz–20 kHz ± 0.1 dB

Distortion

<0.005%, 20 Hz–20 kHz

Dynamic Range

>100 dB

Trim Level Adjust

+6 to -18 dB in 0.125 dB steps

Crosstalk

<-100 dB at 1 kHz

Digital Audio Input

Dolby Digital (AC-3) in IEC 1937 format (formerly IEC 958 Annex B) as specified in ATSC A/52 Annex B; PCM in AES/EBU format; 3-pin female XLR connector

Analog Audio Outputs

0 dBFS = +24 dBu, balanced floating, 25 Ω output impedance; 20-bit DAC; 3-pin male XLR connectors

Headphone Output

+11.5 dBu maximum output into 600 Ω nominal; 1/4-inch standard audio headphone jack; level adjustable over 60 dB range

Digital Audio Outputs

AES/EBU PCM; 5 Vp-p, 110 Ω ; three 3-pin male XLR connectors

Serial I/O

RS-232, 9,600 bps; 9-pin female D-connector (the DP562 is configured as a DCE device); system firmware can be updated via serial I/O connector

Status/Remote Input

9-pin female D-connector

Front-Panel Displays

Two-line by 16-character alphanumeric LCD with back lighting
Six-channel Activity/Signal Presence LEDs (L, C, R, Ls, Rs, SW)

Decoding Modes

Dolby Digital, Dolby Pro Logic, Dolby Digital + Dolby Pro Logic, and Pass-through

Listening Modes

Full, 3 Stereo, Phantom, Stereo, Mono

Compression Modes

None, Custom, Line, RF; Custom and Line modes have adjustable parameters

Test Noise

Auto: Sequences wideband or band-limited pink noise through enabled channels at two-second intervals

Manual: Feeds continuous noise to selected channel when unit is in trim level mode

Power Requirements

90–264 VAC, 50–60 Hz, auto sensing, 30 W maximum; this unit is designed to operate from a centrally switched power source

Dimensions and Weight

45 x 483 x 305 mm (1.75 x 19 x 12 inches)
Net: 4.6 kg (10.2 lb)

Environmental Conditions

5° to 45° C (41° to 113° F), natural convection cooling 0–90% relative humidity (non-condensing)

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.

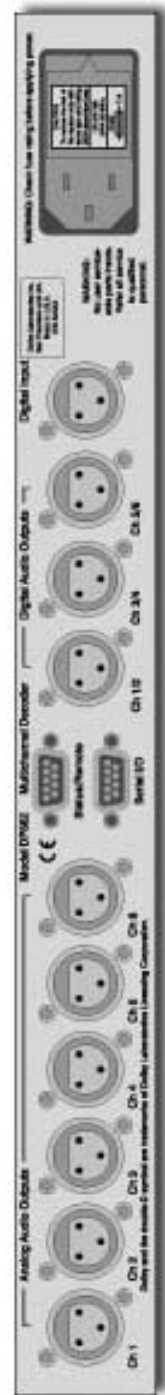
Europe: This unit complies with the requirements of Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC and carries the CE marking accordingly.

Warranty

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

Specifications subject to change without notice.
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TECHNOLOGIES SUPPORTED



DP562 Rear Panel View

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.