



Dolby® DP568 Professional Reference Decoder

The Dolby DP568 provides comprehensive monitoring capability and quality control for Dolby audio formats in broadcast applications.

The Dolby® DP568 Professional Reference Decoder is designed to help broadcasters monitor streams along multiple points of the broadcast chain so that listeners at home will enjoy the highest-quality audio experience. The DP568 is also a convenient platform for performing confidence monitoring of the latest Dolby technologies. It provides real-time decoding of Dolby Digital Plus, Dolby Digital, HE AAC with Dolby metadata, and Dolby Pro Logic® IIX. Features such as secondary audio bitstream mixing and 7.1 Dolby Digital Plus decoding can easily be monitored using the DP568.

Extensive input capabilities allow broadcasters to perform quality control at any point within their headends. This enables monitoring and display of all audio-related metadata and measurement of program loudness, using Dolby Dialogue Intelligence™, ITU-R BS.1770-1, or EBU Mode loudness estimation.

Additional features provide broadcasters with monitoring capabilities for emulating set-top box behavior in the QC environment. These features include a consumer emulation mode for Dolby Digital Plus and Dolby Multistream decoders found in consumer TVs and set-top boxes, H.264 and MPEG-2 video decoding, and standard analog and digital audio and video outputs (including HDMI®).

A Web-based user interface provides easy selection and monitoring of the unique downmixing capabilities, listening modes, and compression modes of Dolby technologies. A front-panel interface allows basic setup and monitoring through standard headphones.

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Front Panel

Multifunction Display

For status indication and setup operations, LEDs display errors and presence of audio and video

Volume Controls

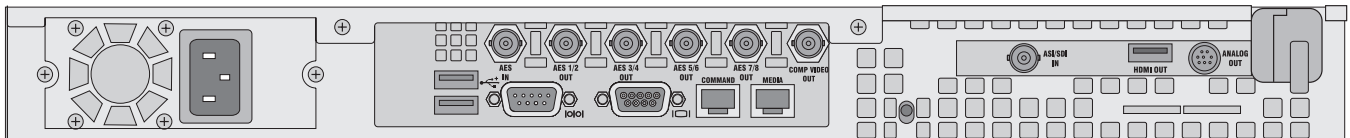
Master and headphone levels

Headphone Output

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

USB Ports

Two standard USB ports



Rear Panel

ASI/SDI Input

One auto-detecting BNC female connector, 75Ω, unbalanced

Auto-detects and supports SD-SDI (SMPTE 259M-1998), 1.5 GB/s HD-SDI (SMPTE 292M-1998), 3.0 GB/s HD-SDI (SMPTE 424M-2008), or DVB-ASI (ETSI TR 101 891 v1.1.1)

AES Input

Supports PCM or coded audio streams via one BNC female connector, unbalanced, 75Ω, signal levels per AES-3id-1995 (SMPTE 276M)

Digital Audio Outputs

Outputs PCM or coded audio streams through four BNC female connectors, unbalanced, 75Ω, signal levels per AES-3id-1995 (SMPTE 276M)

Analog Audio Outputs

Balanced two-channel stereo analog audio output via one 8-pin mini-DIN connector
Breakout cable with two 3-pin XLR male connectors

HDMI Output

Distributes uncompressed video and PCM audio

Composite Video Output

SMPTE 170M NTSC or ITU-R BT.470 PAL
BNC female connector, unbalanced, 75Ω, signal levels per AES-3id-1995 (SMPTE 276M)

Ethernet Ports

The media gigabit ethernet (GE) port can receive MPEG transports over UDP/RTP, IGMP version 3 support (for multicasted streams)

The control GE port provides status and control via a Web-based user interface

Processing Capabilities

Audio Coding Algorithms

Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), AAC, HE AAC v1, HE AAC v2 with Dolby metadata, Dolby Pro Logic II, MPEG-1 LII, stereo PCM

Video Formats Supported

H.264, MPEG-2
HD-1080i at 25, 29.97, and 30 fps, 720p at 59.94, 60, and 50 fps
SD-480i at 29.97 fps and 576i at 25 fps

Loudness Estimation/Algorithms

ITU-R BS.1770-1 audio loudness measurement with Dialogue Intelligence, patented EBU Mode (EBU R128)

Peak Measurement

True Peak per ITU-R BS.1770-1 Annex 2

Environmental Characteristics

Power Specifications

100–240 VAC, 50–60 Hz, auto-sensing, 350 W, designed to operate from a centrally switched power source

Front-panel power switch; field-replaceable power supply

Dimensions and Weight

1-U rackmount: 44 × 483 × 394 mm (1.75 × 19 × 15.50 inches)

Net: 6.5 kg (14.5 lb)

Environmental Conditions

Operating: 0°C–40°C (32°F–104°F), fan cooling, 20%–80% relative humidity (noncondensing)

Regulatory Notices

North America: UL, FCC, and CE compliant

Europe: complies with the European Union Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended by Commission Decisions 2005/618/EC, 2005/717/EC, and 2005/747/EC (RoHS Directive)

Visit www.dolby.com/warranty for the latest product warranty information. To purchase a Dolby product, go to the Find a Dealer section of www.dolby.com/broadcast.

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