

L7 LINEAR ACOUSTIC

Power Supply



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*Dolby Digital/Dolby Digital Plus Encoding and Transcoding from PCM, AC-3 and Dolby E
Features AES and SDI I/O, Dual Power Supplies, and SNMP Monitoring*

LA-5269

Dolby® Digital/Plus Transcoder

Dolby® Digital/Plus
Model LA-5269

Linear Acoustic LA-5269 is ultimate transcoding versatility. This Dolby Digital/Plus Encoder delivers the ability to encode, decode, and transcode the most popular multichannel audio formats in use in television broadcast today in a feature-rich and highly modular IRU package.



Supported CODEC configurations

- 5.1 or 3 x 2.0 Channel Dolby Digital (AC-3)
- 5.1 Channel Dolby Digital Plus from PCM or AC-3

Optional Modes:

- Dolby E to Dolby Digital or Dolby Digital Plus

LA-5269

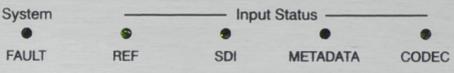
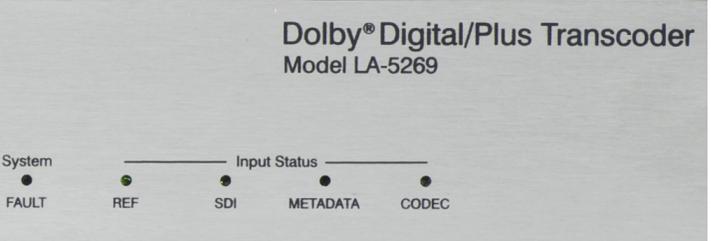


LA-5269 provides everything necessary to accomplish simple, reliable encoding or transcoding in the base unit. Features include frame synchronized AES inputs, SDI or AES-111 (DARS) reference, plus internal or external serial metadata. Coding is provided by a Dolby-manufactured encoder module featuring the latest versions of the codecs for superior sound quality.

Additional functionality can be added as needed via software, enabling support of additional encoding and/or transcoding flavors.

The LA-5269 provides a low-cost encoding platform that allows features to be enabled without the need to replace hardware. A simple software update can add features or codecs at any time. System status and additional I/O features can also be added as needed, essentially allowing broadcasters to pay for only what they need.

Metadata is supported via serial RS485 connection, and can be extracted from the vertical ancillary (VANC) space of an applied HD-SDI signal per SMPTE 2020. Metadata is frame synchronized and errors are corrected to prevent audible disturbances to the encoded bitstreams.



In addition to the comprehensive encoding, decoding, and transcoding choices, the LA-5269 can be ordered with SNMP monitoring.

A bright LED display, rotary encoder, and four control keys provide for easy menu navigation and function adjustment on the unit. External transcoder input is frame synchronized allowing Dolby Digital splicing and smooth transitions and removing the need for external AC-3 frame synchronizers.

Dual, redundant medical-grade power supplies and hard relay bypass of audio and metadata signals are included as standard features, enabling trouble-free operation in transmission critical environments.

LA-5269 Specifications:

AES Inputs and Outputs

All connectors are 75-Ohm BNC female; Four main inputs with 75-Ohm internal termination; Four main outputs; 48kHz AES DARS reference input and passive loop out; Bypass input and encoder output; Signal levels per SMPTE 276M/AES-31D-2001

Supported CODECs

- Dolby Digital (AC-3) Encode from PCM or Dolby E
- Dolby Digital Plus (E-AC-3) Encode from PCM or Dolby E; Transcode from AC-3

Latency

137 msec for Dolby Digital (AC-3) and Dolby Digital Plus (E-AC-3) encode -99/120 msec for Dolby E decode (NTSC/PAL)

Serial Metadata Input

9-pin female D connector, 115 kbps, pinout per SMPTE 207M (RS-485); protocol per SMPTE RDD6 metadata specification and is Dolby compliant

HD/SD-SDI (SMPTE 292M/259M)

De-embedding, processing, and re-embedding of 16 channel audio from applied HD-SDI signal. 75-Ohm BNC female connectors. Signal levels per SMPTE 292M/259M. Supports SMPTE 2020 A and BVANC metadata. Up to 1080i/60/59.94/50Hz supported.

GPIO Control Port

9-pin female D connector; 0-5V TTL levels

Power Requirements

Dual 100-264 VAC, auto-sensing, 50/60Hz, 35 W total maximum

Dimensions and Weight

One rack unit- 1.75"H x 19"W x 12.5"D (44 x 483 x 318 mm) Net weight: 6 lbs (2.72 kg), approximate

Shipping Dimensions and Weight

22"W x 17"D x 7"H (178 x 559 x 432 mm) Net weight: 13 lbs (5.9 kg), approximate.

Environmental

Convection cooled. Operating: 0 to 50 degrees C, non-operating -20 to 70 degrees C.

Regulatory

North America: Tested to comply with the limits for a class A digital device pursuant to Part 15 of the FCC rules (CFR). Power supplies are UL tested and approved.

Europe: Tested to comply with the requirements of harmonised Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC as indicated by the affixed CE marking; RoHS and WEEE compliant.

Warranty

Standard Telos Alliance 5-year warranty.

OPTIONS:

Option - 01 - Dolby E decoding

Option - 04 - SNMP status monitoring

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