LEADER
Technology Innovator

■AUDIO MONITOR
■LV 5837

AES / EBU

3U size (half Rack)

* Specifications subject to change without notice due to product improvements.

Loudness Display
AES/EBU Digital Audio Signal Support

GENERAL

The LV 5837 is an audio monitor designed for use with audio console and master monitoring.
It measures AES/EBU audio signals.
It can display loudness measurements, level meters, Lissajous curves, surround sound fields, and audio status independently or in combination.

FEATURES

● **Equipped with 8 connectors (16 channels) of AES/EBU signal inputs**
The LV 5837 is equipped with 8 BNC connectors (16 channels).

● **Support for LPCM, DOLBY-E, DOLBY-DIGITAL, and DOLBY-DIGITAL Plus**
LPCM audio is supported as standard. DOLBY-E, DOLBY-DIGITAL, and DOLBY- DIGITAL PLUS can be supported with a Dolby module (a Dolby option).

● **Headphone output**
A 3.5 mm mini jack is available.

● **Support for various types of scales**
The LV 5837 supports dBFS, Nordic, BBC, and DIN level meter scales. The level scale for loudness measurements supports both absolute values and relative values in reference to a target level.

● **Wide variety of measurement features**
1) Audio level meter and peak hold meter capable of showing measurements for up to 16 channels simultaneously
2) Lissajous display capable of displaying Lissajous curves and correlation meters of any two channels
3) Surround display capable of displaying Lissajous curves and surround sound fields of adjacent channels
4) Status display capable of showing measurements for 16 channels simultaneously
5) Loudness measurement in two measurement modes of the three available measurement modes: monaural, stereo, and 5.1 channel
6) Chart display capable of showing the change in the short-term loudness values and long-term loudness values over time
7) Logging of long-term loudness values with local time and time code information
8) Channel status analysis display
9) User bit display
10) Metadata analysis display for DOLBY-E, DOLBY-DIGITAL, and DOLBY-DIGITAL Plus (Dolby option)

■ SPECIFICATIONS (LV 5837)

Audio Signal Input Connectors
Input Connectors: 8 BNC connectors, 16 channels
Supported Formats
　Standard: LPCM
　Dolby Option: DOLBY-E, DOLBY-DIGITAL, DOLBY-DIGITAL Plus
Sampling Frequency: 32 k to 192 k
Quantization: 24 bits

Headphone Jack
Output Connector: 3.5 mm mini jack

Audio Level Meter
Display Method: Assign up to 16 audio channels to level meters
Audio Level Meter (Measurements Other Than Loudness)
　Response Model: True-Peak, PPM-TypeI, PPM-TypeII, VU
Audio Level Meter (Loudness Measurements)
　Response Model: Momentary, ShortTerm, Custom
　Reference Level Range:
　　0 dBFS to 40 dBFS (1 dBFS steps)
　Warning Level Range:
　　0 dBFS to 40 dBFS (1 dBFS steps)
　Coloring: Green up to the reference level
　　Yellow between the reference level and warning level
　　Red at the warning level and higher

Peak Hold Meter
Response Model: True-Peak, PPM-TypeI, PPM-TypeII
Peak Hold Time: OFF or 0.0, 0.5 to 5.0 s (0.5 s or 1.0 s steps)

Meter Scale
Compliant Standards: dBFS, Nordic, BBC, DIN (measurements other than loudness)
　LKFS, LUFS, LK, LU (loudness measurement)
Dynamic Range:
dBFS	0 dBFS to -60 dBFS
Nordic	12 dB to -42 dB
BBC	7 dB to 1 dB
DIN	5 dB to -50 dB
LKFS (LUFS)	0 LKFS to -60LKFS
LK (LU)	Value relative to the reference level

Lissajous Display
Display Method: Displays an audio Lissajous waveform of the two channels that you select
Channel Mapping: Specify 2 channels from among 16 channels
AGC Setting: Can be turned on and off
AGC Operating Range:
　Operates in the range of 0 dBFS to -45 dBFS

Correlation Meter
Display Method: Displays the correlation coefficient between the pair of signals assigned to the Lissajous display using a value between -1 and 1

Surround Display
Display Method: Displays a graphical representation of a sound field
Surround Formats: Stereo, 5.1ch
　Channel Mapping: Assign channels to L, R, C, LFE, Ls, and Rs as you like
Center Channel Format:
　Normal, Phantom Center
AGC Setting: Can be turned on and off
AGC Operating Range:
　Operates in the range of 0 dBFS to -45 dBFS

Status Display
Level Meter Numeric Display:
　Displays audio levels using values based on the assigned scale
Error Detection: Level-over, clipping, mute, silent, parity, validity, CRC, Dolby CRC, frame location
Elapsed Time: Elapsed time from error count reset
Channel Status Bits
　Display Format: Binary
　Analysis Display Information:
　　Format, AudioData, Emphasis, SignalLock, SampleFrequency, Reference, ChannelMode, Resolution, Alignment, Origin, Destination, TimeCode, CRC
User Bits
　Display Method: Binary
DOLBY-E Metadata
　Displayed Contents: Dolby-E CommonMetadataStatus
　　AC-3 MetadataStatus
　　AC-3 ExtendedBitstreamInfo
DOLBY-DIGITAL Metadata
　Displayed Contents: AC-3 MetadataStatus
　　AC-3 ExtendedBitstreamInfo
DOLBY-DIGITAL Plus Metadata

Loudness Measurement
Measurement Modes: Monaural, stereo, 5.1
Channel Mapping: Assign channels to L, R, C, LFE, Ls, and Rs as you like
Level Meter Display: Momentary, ShortTerm, LongTerm
Chart Display: Displays numerically the change in the ShortTerm and LongTerm responses over time.
Chart Display Time: 1 min, 4 min, 10 min, 30 min, 1 hour, 2 hours, 4 hours, 6 hours, 12 hours
Operation Modes: ARIB, EBU, ATSC, Custom
Custom Mode Settings:
　BlockSize, Overlap, AbsoluteGating, RelativeGating, TargetLevel
Operation Control: START/PAUSE key

Logging Feature
Function: Records detected errors or LongTerm loudness values with timestamps
Recording Time: Records at 1-second intervals for 1 week
Recording Control: START/PAUSE key

Environmental Conditions
Operating Temperature: 0 to 40°C
Operating Humidity: 85 %RH or less (no condensation)
Operating Environment: Indoors
Operating Altitude: Up to 2,000 m
Overvoltage Category: II
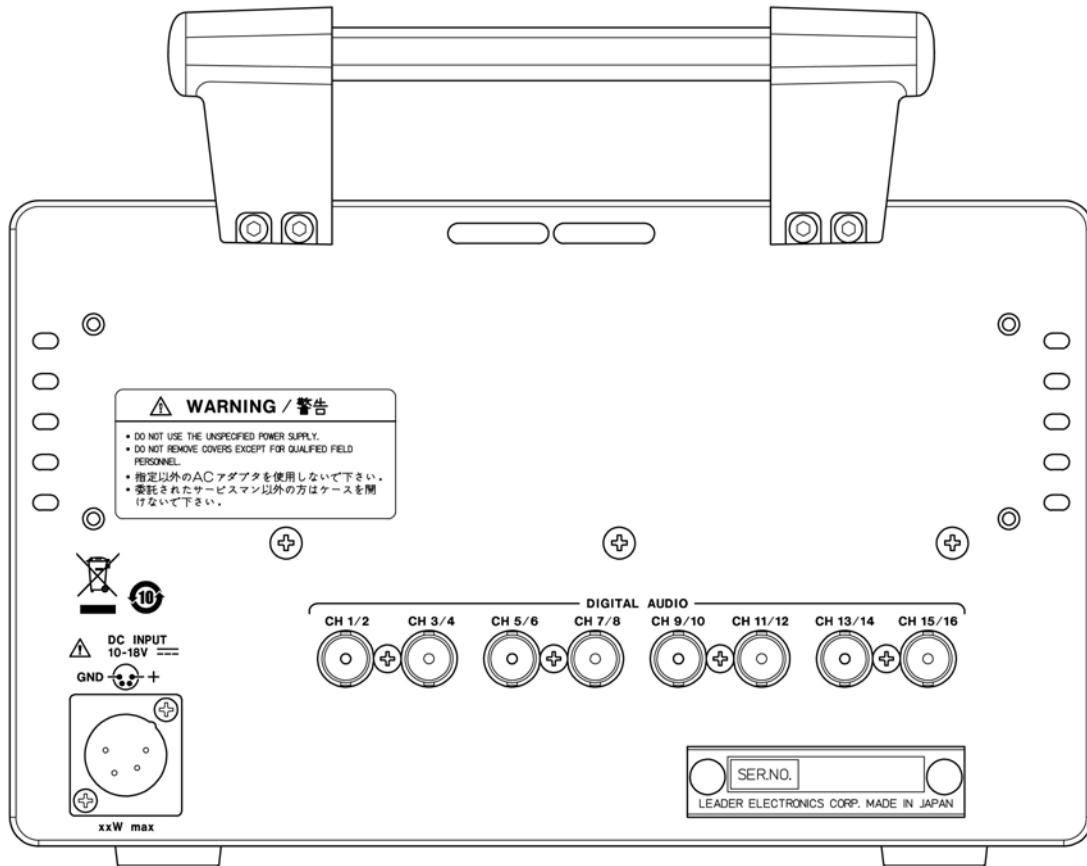Pollution Degree: 2

Power Supply: 10 to 18 VDC
Dimensions: 215 (W) × 128 (H) × 72 (D) mm (excluding protrusions)
Accessories: Instruction Manual 1
　AC adapter... 1

* The Dolby option is a factory option.
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(Dolby is a trademark of Dolby Laboratories.)

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