

SURROUND SOUND MONITOR

- 6-Channel AES/EBU Digital Inputs
- Includes Level Display for Sub Woofer Channel
- Stereo Bargraph Level or Phase Display
- Precision Display of Sound Image Aids in Mixing and Mic Placement
- Display of L-C-R Surround (3-1) or L-C-R-LS-Rs (3-2)
- 5-Channel Analog Balanced/Unbalanced Inputs
- Interchannel Lissajous Displays Spots Polarity Errors at a Glance
- Auto Spot Killer

LV 5836B

Model LV 5836B is capable of displaying a precise sound image that visually matches the human aural perception of sound directivity in surround-sound systems.

Developed in collaboration with NHK, the Japanese National Broadcasting Company, the digital processor works out phase and amplitude aspects to display the sound image. Both L-Ctr-R-S (3-1) and L-Ctr-R-LS-RS (3-2) are accommodated as well as the 5.1 Dolby system. The unit accepts the latter in the form of 6-channel AES/EBU digital audio. A separate on-screen level indicator is employed for the low frequency woofer (0.1) channel. In addition to the sound image, dedicated bargraph level

indicators are provided. And six multi-Lissajous displays are available to show phase and polarity between pairs in the five channel group, this to spot polarity inversion in signal feeds at a glance. The unit accepts six channels of AES/EBU digital audio as well as five channels of analog audio in both balanced and unbalanced form. Peak or average response may be chosen, and an auto gain feature ensures optimum display. But fixed reference levels are menu selectable for both digital and analog inputs. A spot killer protects the CRT from extended no-signal operation.

KEY SPECIFICATIONS

CRT

Type
6-inch rectangular
Post Acceleration
16 kV

DISPLAY SECTION

Surround Display
3-1, 3-2, 5.1 systems, selectable
Acoustic Image Display
3-1 : L-C-R-S
3-2 : L-C-R-SL-SR
5.1 : L-C-R-SL-SR-SW
Lissajous Display
2 channel, selected
Multi-Lissajous Display
3-1 : L-C, L-R, C-R, L-S, C-S, S-R
3-2 : L-C, L-R, C-R, L-SL, SL-SR, SR-R
Level and phase meters inactive
Variable and anti-gain inactive
Lissajous Display Axis
Normal: X-Y indication
Matrix: sum/difference indication menu switchable

GAIN CONTROL

Auto Gain
Operation Range -12 to +8 dB
(Level and phase meters inactive)
Variable
± 6 dB menu selected
Display Gain
CAL'D, X0.5, X2, X10 switchable

SPOT KILLER

ON/OFF menu selectable

DOWN MIXING

3-1 : $L_m = L + 0.7C + 0.7S$
 $R_m = R + 0.7C + 0.7S$
3-2 : $L_m = L + 0.7C + 0.7SL$
 $R_m = R + 0.7C + 0.7SR$
5.1 : $L_m = L + 0.7C + 0.7SL$
 $R_m = R + 0.7C + 0.7SR$

Frequency Response

20 Hz to 20 kHz ± 1 dB

Display Accuracy

± 5%

METER SECTION

Level Meter (Bargraph) Display
On/Off menu selectable
Level Meter Response
FAST: (peak response) sound image,
Lissajous only
SLOW: (average response) Lissajous
Reference Level
Analog: -20, 0, +4 dB menu selectable
Digital: -20, -18, -12 dB menu selectable
Graticule
Analog: -40 to +10 dBm FAST mode
-10 to +3 dBm SLOW mode
Digital: -50 to 0 dB

Phase Meter Indication

On/Off menu selectable
Phase of channel pairs is displayed

CHANNEL SELECTION

3:1
Selected from L-R, L-C, C-R, L-S, C-S, S-R
and down mixed Lm-Rm
3:2
Selected from L-R, L-C, C-R, L-SL, SL-C,
C-SR, SR-R, SL-SR and down mixed
Lm-Rm
5:1
Selected from L-R, L-C, C-R, L-SL, SL-C,
C-SR, SR-R, SL-SR, L-SW, C-SW, SW-R,
SL-SW, SW-SR and down mixed Lm-Rm

INPUT SECTION

Analog Balanced Inputs
3-1: 4 signals L, R, C, S
3-2: 5 signals L, R, C, SL, SR
Input Connectors
5 XLR-3-32 (female)
Impedance
600 Ω/high impedance menu
switchable
Connector Wiring
1 ground, 2 hot, 3 cold
1 ground, 2 cold, 3 hot menu switchable
Maximum Input Voltage
50 V dc + ac peak
Maximum Input Level
+ 15 dBm (4.5 V rms) 600 Ω

SURROUND SOUND MONITOR

KEY SPECIFICATIONS (LV 5836B)

Analog Unbalanced Inputs

3-1: 4 signals L, R, C, S

3-2: 5 signals, L, R, C, SL, SR

Input Connector

5 RCA phono type

Impedance

High

Maximum Input Voltage

50 V dc + ac peak

Digital Inputs

Format

AES/EBU (48 kHz)

3-1: L, R, C, S 4 signals

3-2: L, R, C, SL, SR 5 signals

Input Connector

3 BNC

L/R, C/SW, SL/SR

REMOTE CONTROL

Functions

Sound image/Lissajous switchable

Channel switchable

Display gain switchable

Control Level

TTL

ENVIRONMENTAL

Operating Temperature and Humidity

10-35°C, 10-80% RH

POWER REQUIREMENTS

90 - 250 V ac, 50/60 Hz

50-60 VA

PHYSICAL

Size (W x H x D)

8¹/₂ x 5¹/₄ x 16³/₄ in.

215 x 132 x 423 mm

Weight

12.1 lbs., 5.5 kg

SUPPLIED ACCESSORIES

Spare Fuse

Power Cord Retainer

AVAILABLE OPTIONS

Rackmount Adapter (LR-2400VD)