

Stereo Audio Monitor

- *Lissajous Display of L and R Signals*
- *Choice of L/R or L+R/L-R Plot*
- *Auto Phase Reversal Alarm*
- *Remote Alarm*
- *Spot Killer Protects CRT*
- *Fits Standard Half-Rack Adapter*



Model 5835

Stereo-audio operations require tight control of relative L and R amplitude and phase to ensure correct directional response for stereo listeners and to prevent serious degradation of the L+R component for monaural listeners. Model 5835 provides the means to monitor stereo signals with an X-Y plot that shows both amplitudes and relative phase of L and R signals (a Lissajous pattern.) Further, an automatic alarm is triggered if a serious phase error, as might be caused by a polarity inversion in either stereo feed, results in a significant L-R component for more than five seconds. The warning appears on a front-panel LED and can be rigged for a remote alarm. The 5835 mounts in a standard half-rack adapter to take its place in studio or transmitter monitoring operations

Two interchangeable graticules are provided to allow the 5835 to be set up for the standard of L versus R plot or the newer plot of L+R versus L-R. The change is effected by internal jumper connections. Both balanced (XLR) and single-ended (phono-type connector) inputs are provided. A -20 dB, 0 dB, +10 dB range switch includes a CAL setting and is augmented with a VARIABLE control.

key specifications

CRT

Size
6 in. diagonal
Acceleration Voltage
12 kV / 2 kV

Graticule
External (2 supplied)

DISPLAY SYSTEM

Choice of Either
1. L vertical and R horizontal
2. L+R vertical and L-R horizontal
1 or 2 selected by internal switching

INPUT TERMINAL 1

Balanced L and R Inputs
Connectors
Canon XLR 3-31 or XLR 3-32
Input Impedance
20 k Ω or more, can be switched to 600 Ω internally
Maximum Input
50 V dc + ac p-p
Note: Not more than 15 dBm (4.5 V rms) into 600 Ω termination

INPUT TERMINAL 2

Unbalanced inputs with RCA-phono type connectors
Input Impedance
20 k Ω or more
Maximum Input
50 V dc + ac p-p
-30 dB at 3.58 MHz

CHARACTERISTICS

Full Scale Input
0 dB (775 mV)
Frequency Response
20 Hz - 20kHz \pm 0.5 dB
Phase Difference
 \pm 1 $^\circ$ from 20 Hz to 20 kHz
Gain Adjustment
-20, 0, +10 dB in three steps
 \pm 10 dB continuous

STEREO POLARITY ALARM

Indicator, Front Panel
Yellow LED
Indicator, External
BNC rear panel, open collector
35 V, 50 mA, 200 mV maximum
Operating Frequency
200 -500 kHz
Threshold
1.5 divisions on the L-R axis for more than 5 seconds

CALIBRATION

0 dB, 775 mV rms (1 kHz reference)
for use i position, rotation and gain checks

Z-AXIS

Spot killer. Beam intensity reduced in absence of signal for several seconds.

POWER REQUIREMENTS

100, 120, 220, 240 V ac \pm 10%
50/60 Hz, 27 W

PHYSICAL

Size (W x H x D)
8 $\frac{1}{2}$ x 5 $\frac{1}{4}$ x 16 $\frac{7}{8}$ in.
215 x 132 x 429 mm
Weight
17.4 lbs., 7.9 kg

SUPPLIED ACCESSORIES

L/R, L+R/L-R Graticules
5 Spare Illumination Lamps
1 Spare Fuse

OPTIONAL ACCESSORIES

Rackmount Adapter (LR-2400VT)