

Mul ti-Format Anal og Waveform Monitor

- *Handles Analog HD and SD in US and European Formats*
- *Accepts YPbPr and GBR 3-Wire Input Signals*
- *Component Vectorscope*
- *Transcode from YPbPr to GBR for Vector Display and to Spot Illegal Colors*
- *Picture Display From Y or G*
- *Full Line Select in Each Selected Format*
- *Cursor Measurements of Level and Time with 0.5% Accuracy*
- *Preset Memory Recalls 10 Observation Setups*
- *Picture Monitor Output Includes Line Select Strobe*
- *Stereo Audio Amplitude/Phase (Lissajous) Display*



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LV5152

The LV5152 offers a single waveform/vector unit capable of full monitoring facilities for analog components in nine of the SD and HD formats in use in the US and Europe. Monitoring facilities include waveform, component vector, picture and stereo amplitude/phase, and features full line select for each

of the selected formats with the line strobe in the picture display. Transcoding from GBR to YPbPr enables vector display and helps to spot illegal colors. Precision cursors gauge levels and time. Ten presets preserve panel settings including line select and cursors for recall of particular test routines.

key specifications

FORMAT COVERAGE

Format	Lines/Frames	Applicable Standards
1080/60i	1125/29.97 (30)	SMPTE 274M
1080/50i	1125/25	SMPTE 274M
1080/48i	1125/23.98 (2)	SMPTE 274M
720/60p	750/59.94 (60)	SMPTE 296M
480/60p	525/59.94 (60)	SMPTE 293M
480/60i	525/29.97 (30)	SMPTE 253M
1080/50i	1250/25	SMPTE 295M
576/50p	625/50	ITU-R BR.1358
576/50i	625/25	ITU-R BT.601-4

ANALOG INPUTS/OUTPUTS

CH1 (Y/G), CH2 (Pb/B, CH3 Pr/R)
Passive loop-through, 2 sets

Return Loss
≥ 30 dB, 50 kHz to 30 MHz

Impedance/Connectors
75 Ω/6 BNC

EXTERNAL REFERENCE INPUT

Return Loss
≥ 30 dB, 50 kHz to 30 MHz

Impedance
75 Ω

Sync Amplitude
0.3 V p-p ± 6 dB

ANALOG PICTURE MONITOR OUTPUT

Amplitude
1 V ± 5%

Frequency Response
25 Hz to 30 MHz within ± 5%

VERTICAL SECTION

Deflection Accuracy
Within ± 1%, GAIN x1
Within ± 3%, GAIN x5

Frequency Response
Flat: Within 1% 25 Hz to 30 MHz
Low Pass: ≥ -20 dB at 20 MHz
DIF'D Step: ≥ -20 dB at 30 kHz
≥ -20 dB at 7 MHz

DC Restorer Speed

Slow: ≤ -20% at 60H
Fast: ≥ -80% at 60 Hz
DC Restorer Clamp Timing
Fixed: Back porch
Variable: 0.5 to 12 μs relative to sync rising edge

HORIZONTAL SECTION

Modes
Overlay, Parade, Timing
Sweep Displays
Line: 1H, 2H, 3H (Parade)
1H MAG, 2H MAG, 3H MAG (Parade)
Field: 1V, 2V, 3V (Parade)
1V MAG, 2V MAG, 3V MAG (Parade)

VECTOR MODE

Amplitude Accuracy
± 2% YPbPr and GBR inputs
± 3% GBR

PICTURE MODE

Displays Y or G signal with line-select strobe

AUDIO MODE

Input
Direct coupled balanced
Input Impedance/Bandwidth
≥ 20 kΩ/ 20 kHz
Full Scale Reading
0, 2, 4 dBm (menu selectable)

X-Y Phase Accuracy

Within 1° at 20 kHz

CALIBRATION SIGNAL

1 V ± 0.5%

LINE SELECT

Trigger
Field 1, Field 2, All (interlaced signal) frame for progressive
Selectable Lines
1 to 1125 or 1 to 750

Line Window

1 to 15 lines

REMOTE CONTROL

Remote Preset Selection
10 presets

Control Signal/Connector

TTL low active/D-sub 25-pin

Control Input

D-sub 25-pin (REMOTE), rear panel

CURSOR MEASUREMENTS

Vertical Measurement Range

0-2000 mV, 0-280.0 %

Accuracy Resolution

± 0.5%/1 mV or 0.1%

Ratio Measurement

X% with respect to 100% REF

Accuracy

± 3%

Frequency Measurement

Calculated from cursor span of 1 period

CRT

Effective Display Area

80 x 100 mm

Graticule

Internal (waveform)

Internal and External (vector)

Electronic (vector and audio)

Phosphor

White standard

POWER REQUIREMENTS

90 V - 250 V ac, 48 to 440 Hz, 60 W max

PHYSICAL

Size (W x H x D)

8³/₈ x 5¹/₄ x 17 in.

215 x 132 x 429 mm

Weight

11 lbs., 5 kg

SUPPLIED ACCESSORIES

5 Spare Illumination Lamps

1 Spare Fuse

1 25-pin D-Sub Connector

1 25-pin D-Sub Connector Shell

1 Power Cord Retainer

OPTIONAL OPTIONS

Carrying Case with Handle & Feet

(LR-24271-U)

1080/24P operation (NS-338)