

NTSC/PAL/SECAM Waveform Monitor



**Test Equipment
Depot**
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TestEquipmentDepot.com

- Parade and Overlay Displays
- Picture Display (with Line-Select Strobe)
- Full Line Select with 525/60 and 625/50 Notation
- Menu Selected Setup
- Memory Storage of 10 Panel Setups
- Cursor Measurement of Level and Time (0.5%)
- Level Cursors Read in Volts, IRE, % and dB
- Dual Filter Display
- RGB and YRGB
- Y/C Monitoring
- X-Y Operation (Option)
- White Phosphor (Option)
- Universal Power Supply (90-250 V ac, 48-440 Hz)
- Remote Control

Model 5222

- Handles NTSC, PAL and SECAM
- 8 Channels plus EXT REF

A powerful component/composite waveform monitor, the 5222 handles 8 channels in A/B groups of 4 with the ability to overlay parades of 3 x 3 component signals. A picture display of the selected channel shows program material with a line-select strobe. The unit sets up automatically to 525/60 or 625/50 (or menu select) and a TIMING mode sets up bowtie observations. Full line selection is provided with line number notation applicable to NTSC or PAL and a

1-10 line window. Extensive operating options available under menu control include level and time/frequency cursors that read in volts, IRE units, % or dB and time/frequency units. Components are handled in GBR or Y_{CB}C_R form. Calibration is menu controlled as well as DC restorer speed and sample point. Ten front panel setups can be stored and recall brings back all but power ON/OFF, INTEN, FOCUS and scale ILLUM.

key specifications

SYSTEMS

NTSC, PAL/SECAM III

INPUTS

Number of channels
8 (4 x 4 loop-through)
Input Impedance
≥ 15 kΩ (75 Ω loop through)
Maximum Input Voltage
2 V dc, + ac peak

CRT

Accelerating Potential
16.5 kV
Phosphor
P31 (white optional)

VERTICAL SELECTION

Accuracy
± 1% at X1, ± 2% X5
± 0.5% cursor measurement

Frequency Response

Flat
± 2% 25 Hz to 6 MHz

LUM

≥ 35 dB at 3.58 MHz or 4.43 MHz

CHROMA

NTSC: 2.2 MHz ± 200 kHz bandpass
PAL: 2.4 MHz ± 200 kHz bandpass

DIF'D STEP

400 kHz bandpass filter

Transient Response

≤ ± 2% overshoot, ≤ ± 1% preshoot,
≤ ± 2% ringing, ≤ ± 1% pulse/bar ratio,
≤ ± 1% tilt

Differential Gain

≤ 1%

VIDEO OUT

Frequency Response
≤ ± 3% 25 Hz to 6 MHz

Output Impedance

75Ω

HORIZONTAL SECTION

Sweep Modes

1H, 1V 2V, 1H/2V combo
1 μs/div (X10 with respect to 2H)
0.2 μs/div (X25 with respect to 1H)
V MAG (X20 with respect to 1 or 2V)

Accuracy

± 3% at 1 μs/div, ± 3% at 0.2 μs /div

Sweep Length

RGB (3 steps) 3.5 to 4.1 div
Yrgb (4 steps) 2.5 to 3.1 div

CALIBRATION

Cal Cursor Span: 1 V ± 0.5%

EXT REF

Input Impedance
≥ 15 kΩ, 75 Ω loop-through

Maximum Input Voltage

± 12 V dc + ac peak

LINE SELECT

NTSC

Field 1, 3 Lines 1-263; Field 2, 4 Lines
1-262; All lines 1-262

PAL

Field 1, 3 Lines 1-313; Field 2, 4 Lines
314-625; All lines 1-312

REMOTE

Functions Controlled

INPUT, REF, Y/C, RECALL, LINE SELECT

CURSORS

Voltage Measurements: ≤ 0.5%

Units

V, IRE, %, dB

Time Measurements

Units: μs between ref and Δ cursors
Accuracy: ± 3%

Frequency

Readout 1/Δ t

CRT READOUTS

TV format, (525/60 OR 625/50). TV field
and line numbers, Sync Reference
(CH1A, CH4A, CH1B, CH4B or EXT),
cursors and readings, etc.

POWER REQUIREMENTS

AC 90 to 250 V, 48-440 Hz, 40 watts

PHYSICAL

Size (W x H x D)

8¹/₂ x 5¹/₄ x 16³/₄
215 x 132 x 423 mm

Weight

9.2 lbs., 4.2 kg

ENVIRONMENTAL

Operating Temperature

0 to 40° C (32 to 104° f)

SUPPLIED ACCESSORIES

2 Rackmount Screws (8-30 UNC)

5 Spare Illumination Lamps

1 Spare Fuse

15-Pin D Sub Connector with Shell

Available Options

Protective Metal Cabinet with Handle
& Feet (LR-2427I-U)

X-Y Stereo Display

White Phosphor CRT (NS-290)

525/60, NTSC	625/50, PAL
0-2000.0 mV	0-2000.0 mV
0-280.0 IRE	0-286.0 %