

NTSC/PAL Vectorscope

- Handles both NTSC and PAL
- Overlay Display of 3 Channels Plus EXT REF
- Auto Burst Zeroing
- CRT Readout of DG/DP to 2 Decimal Places
- Remote Control and Line Select (via 5222)
- X-Y Display for Stereo Monitoring
- Digital Phase Measurement
- Phase Accuracy Within 1°
- Universal Power Supply (90-250 V ac, 48-440 Hz)



Model 5212



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TestEquipmentDepot.com

Operating automatically in NTSC or PAL, the 5212 overlays vector displays for 4 signals (3 input channels plus an external reference.) A touch on AUTO PHASE automatically zeros burst to the B-Y (-U) axis using the reference chosen from any channel or an external reference. Digital phase readout makes it easy to measure precise phase differences between channels. Of particular value is semi-automatic setup for high resolution measurements of differential phase and gain.

Other features include menu selected calibration for signals with or without setup and for 75% or 100% color bars. A+V key invert -V signals for a less cluttered PAL display. Up to 10 front panel setups may be stored for instant recall and remote control with line select strobe is provided via connection to a 5222 waveform monitor. X-Y operation for stereo monitoring is standard and is accessed at a rear panel connector.

key specifications

INPUTS

Channels

CH1, CH2, CH3, EXT REF

Input Impedance

≥ 15 kΩ (75 Ω loop-through)

Max Input Voltage

≥ 12 V dc + ac peak

CRT

Accelerating Potential

16.5 kV PDA

Area

150 mm rectangular

Phosphor

P31 (white optional)

VECTOR OPERATIONS

Chroma Bandwidth

NTSC 3.579545 MHz ± 500 kHz

PAL 4.43361875 MHz ± kHz

Phase Accuracy

≤ ± 1°

Amplitude Accuracy

≤ ± 3%

Subcarrier Capture Range

± 150 Hz in one second

GAIN CONTROL

Gain Range

-14 to +3 dB

Gain Accuracy

≤ 3% at X1, ≤ 5% at X5

Phase Accuracy

≤ 1° at X1, ≤ 2° at X5

VIDEO OUT

Frequency Response

≤ ± 3% 25 Hz to 6 MHz

SYNC RANGE

Internal Sync Range

1 V p-p ± 6 dB

External Sync Range

143 mV to 4 V composite or black

burst CW subcarrier 2 V ± 6 dB

DG/DP ACCURACY

DG/DP

≤ 0.5%/≤ 0.5°

EXTERNAL REFERENCE INPUT

Input Impedance

≥ 15 kΩ (75 Ω loop-through)

Max Input Voltage

± 12 V dc + ac peak

X-Y MODE

Input

DC Coupled Differential Input

Accuracy

≤ ± 3%

Input Impedance

≥ 20 kΩ

Input Amplitude

0 to 12 dBm at 600 Ω impedance

0.775 V to 3.1 V rms for full scale CRT

deflection. (Preset to 0 dBm full scale.)

Max Input

± 12 V peak

X-Y Phase Shift

≤ 1° at 20 kHz

CRT READOUTS

Color System, Phase, Sync Ref

DG/DP

+ 10.00% to -10.00%, 10.00° to -10.00°

REMOTE CONTROL

Controlled Functions

Via Model 5222 Waveform Monitor

INPUT, REF Y/C, RECALL, LINE SELECT

POWER REQUIREMENTS

AC 90 to 250 V, 48 to 440 Hz, 35 W

PHYSICAL

Size (W x H x D)

8 1/2 x 5 1/4 x 16 3/4

215 x 132 x 423 mm

Weight

8.8 lbs., 4 kg

ENVIRONMENTAL

Operating Temperature

0 to 40° C

SUPPLIED ACCESSORIES

2 Rackmount Screws (8-30 UNC)

1 Spare Fuse

15-Pin D Sub Connector with Shell

9-Pin to 9-Pin Cable (50 cm)

AVAILABLE OPTIONS

White Phosphor CRT (NS-287)

Protective Metal Cabinet with Handle

& Feet (LR-2427I-U)

Rackmount Adapter (LR-2400VI)