



The cabinet is sold separately.

Precise DG/DP Measurements with CRT Readouts, Three Video Inputs, One External Reference Input, X-Y Display Capability, Auto Phase & Mag Burst

Models 5210 and 5212 are precision Vectorscopes designed to monitor video signals. The 5210 series with its bright CRT features a vector display, DG/DP functions are included to measure differential gain and differential phase with an onscreen readout. On screen menus allow setting of functions including X-Y display mode for stereo audio signals. Both instruments have three video inputs and one external reference input channel. Up to four waveforms, including the external reference can be displayed. The newly developed digital phase control ensures phase measurement accuracy of within 1%. Remote control is possible when combined with a 5220 series Waveform Monitor. Model 5210 covers sub carrier frequencies and sync for NTSC at 3.58 MHz. Model 5212 covers 3.58 and 4.43 MHz sub carrier frequencies and sync systems for NTSC and PAL color systems M, B, G, H and I.

Model	5210	5212
Subcarrier Frequency	3.58 MHz	3.58/4.43 MHz
Sync System	M	M, B, G, H, I
Color System	NTSC	NTSC/PAL

FEATURES

- Three Video Inputs And One External Reference Input Channel**
 Up to four waveforms, including the external reference, can be displayed simultaneously.
- Digital Phase Control**
 The newly developed digital phase control ensures a phase measurement accuracy of within 1% and display resolution, of within 0.1% with alphanumeric readout.
- DG/DP Readouts**
 Both instruments have accurate measurement of differential gain DG and differential phase DP with alphanumeric readout.
- X-Y Display Function**
 The level and phase of stereo audio signals can be measured.
- Menu Function**
 For user-friendly front panel control, a menu controller is provided for various functions.
- Preset Function**
 The front panel settings, including vertical and horizontal positioning, can be stored in memory, and recalled from the front panel or via the remote control connector on the rear panel. Setup time is reduced by presetting frequently used measuring conditions.

- Automatic NTSC/PAL System Detection (5212 only)**
 The 5212 automatically selects the NTSC or PAL color system.
- Y/C Input**
 The C signal vector can be displayed by respectively applying the Y signal and C-signal to the CH1 and CH2 input connectors.
- Remote Control**
 These instruments can also be remotely controlled when combined with the 5220 series Waveform Monitor. The line selected by the waveform monitor is displayed automatically.
- Bright CRT, Accelerating Potential of 16.5 kV**
- Universal AC Power Supply, 90 to 250 V**

5210/5212 SPECIFICATIONS

CRT Type	150 mm rectangular (P4)	
Input Channel	CH1, CH2, CH3, EXT	
Synchronization	5212 PAL	5210/5212 NTSC
Sync Amplitude	Burst, sync amplitude 0.3 Vp-p ±6 dB	Burst, sync amplitude 0.286 Vp-p ±6 dB
CH1, 2, 3 Video Signal	Burst, sync amplitude 0.3 Vp-p ±6 dB	Burst, sync amplitude 0.286 Vp-p ±6 dB
EXT Video Signal	Burst, sync amplitude 0.3 Vp-p ±6 dB	Burst, sync amplitude 0.286 Vp-p ±6 dB
Signal Selection	Video or subcarrier, selectable	
Vector Mode	5212 PAL	5210/5212 NTSC
Bandwidth	Fsc+500 kHz ±100 kHz	Fsc+500 kHz ±100 kHz
Upper -3 dB Point	Fsc-500 kHz ±100 kHz	Fsc-500 kHz ±100 kHz
Lower -3 dB Point	4.43361875 MHz	3.579545 MHz
Center Frequency (Fsc)	Color bars 75%, 100%	
Display	MAG mode setting	
DG/DP Mode		
Measurement Accuracy	Within ±0.5%	
DG	Within ±0.5°	
DP		
X-Y Mode	DC-coupled differential inputs (Balanced input)	
Input	Within ±3%	
Calibration Accuracy	0 dBm to 12 dBm (600 Ω)	
Input Amplitude	(0.775 V to 3.1 Vrms)	
GAIN	+3 dB to -14 dB or more	
GAIN Variable Range	Within ±1° (+3 dB to -6 dB)	
Phase Shift by GAIN		
Auto Phase Accuracy	Burst phase is set to-(B-Y) axis. Within ±2°	
Power Requirements	90 to 250 VAC, 48 to 440 Hz	
Power Consumption	≤35 W	
Dimensions and Weight	215 (W) x 132 (H) x 429 (D) mm, 4 kg 8 1/2(W) x 5 1/4(H) x 16 3/4(D) in., 8.8 lbs.	