LEADER 5860V(NTSC) 5861V(PAL)



• 5860V REAR PANEL



Measures Composite Video Signal Amplitude, Timing, and Frequency Response

The 5860V and 5861V Waveform Monitors offer quick and accurate monitoring of amplitude, time and frequency response characteristics of composite TV signals.

The waveform monitor is equipped with sweep modes and trigger functions that are optimized for monitoring video signals. For example, sweep modes 2H, 1H, 1µs/div, 2V, 1V, and 2V MAG can be selected for the horizontal axis. Optimized filters such as FLAT, IRE (5860V), LUM (5861V), CHROMA, DIF GAIN and DIF'D STEP can be switched in to observe various characteristics of video signals.

Furthermore, a line selector is provided for observing VITS and VIR signals that are inserted during the vertical blanking period. The blanking output connector allows for blanking other periods than the lines selected by the line selector. Loop-through connectors are provided for A and B and external reference inputs. A video output follows the selected A or B input. Other functions necessary for video signal monitoring are provided.

FEATURES

- The 5860V is compatible with the NTSC M system, and the 5861V is compatible with PAL B, C, D, G, H, I, and K systems.
- Differentiated-step filters easily display the differential of staircase signals to measure the linearity of luminance components for transmission systems.
- Built-in line selector function for monitoring VITS and VIR signals, a blanking output and a video output.
- \bullet Horizontal sweep mode selection from 1H, 2H, 1µs/div, 1V, 2V and 2V MAG.

The frequency response of the vertical axis is switchable between FLAT, IRE (5860V), LUM (5861V), CHROMA, DIF GAIN, and DIF'D STEP filters.

• K factor scale is provided onscreen for checking frequency characteristics.

5861V (PAL) 5860V (NTSC) SPECIFICATIONS

Test Equipment

1-800-517-8431

Depot

Model 5861V 5860V CRT Type 150 mm rectangular, internal graticule with scale illumi Accelerating Potential 12 kV Effective Display Area 80 (V) × 100 (H) mm Beam Rotator Adjustable from the front panel Input Connector A and B on the rear panel (loop-through, BNC connection Input Connector A and B on the rear panel (loop-through, BNC connection Input Connector A and B on the rear panel (loop-through, BNC connection Input Connector A and B on the rear panel (loop-through, BNC connection) Full Scale 1.0 Scale range: 60 kQ, 50 pF Maximum Input ±5 V (DC+peak AC), AC coupled Full Scale Graticule 100 IRE Deflection Accuracy 0.3 scale 40 IRE VIDEO 0.7 scale 100 IRE Deflection Accuracy Uithin ±2% of 1.0 Within ±2% of 140 IRE scale at 1V input 4 V Full-scale Range Within ±4% of 1.0 Within ±4% of 10 IRE scale at 1V input 4 V Full-scale Range Within ±4% of 1.0 Within ±4% of 10 IRE scale at 1V input FLAT 25 Hz to 3.6 MHz ±2%, 3.6 MHz to 5 MHz+2%, -5% at 50 KHz reference <t< th=""><th></th></t<>					
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Response at filter "FLAT" 400 kHz: Within ±2% 500 kHz: Within ±0, -20%					
400 kHz: Within ±2% 500 kHz: Within +0, -20%					
500 kHz: Within +0, -20%					
14 kHz 2 MHz: Within -90%					
	4.43 MHz (5861V), 3.58 MHz (5860V): -99%				
Transient Response ±1.5% or less in ±2 IRE or less in					
overshoot, preshoot, overshoot, preshoot,					
and ringing using the and ringing using the					
sin ² pulse & bar signal sin ² pulse & bar signal					
at FLAT with 1V full at FLAT with 1 V full					
scale range. scale range.					
Sag (Vertical window signal) 2% or less					
Variable Range Input voltage of 1.0 full Input voltage of 140					
scale IRE full scale					
	0.25V or less to 1V				
	1V or less to 4V				
DC Restoration Clamped at the back porch					

Model	5861V	5860V		
Video Output				
Output Connector	BNC connector on the rear panel			
Output Voltage	1V ±15% at full scale input			
Output Impedance	75 Ω +10%			
Frequency Characteristics	25 Hz to 5 MHz ±5%			
Sweep				
1H Sweep	Display of 1H waveform			
2H Sweep	Display of 2H waveform			
1 us/div	10 times magnification of 2H sweep. 1us/div ±3%			
1V Sweep	Display of 1V waveform			
2V Sweep	Display of 2V waveform			
2V MAG Sweep	Approx. 20 times magnification of 2V sweep			
Linearity	±3%			
RGB/YRGB Display	RGB is standard. (YRGB is optional.)			
Staircase	10 V ±15%/9 div			
Maximum Input Voltage	±12V (DC+peak AC)			
Sweep	1H display at 2H sweep			
Oncep	1V display at 2V sweep			
Sweep Line Length	RGB: 30% × 3 or composite display			
Sweep Line Length	YRGB: $22\% \times 4$ of composite display			
Composite to YRGB	Remote control from external or internal control signal			
Control Signal	12 to 15 V (negative or positive), 15 mA			
RGB and YRGB Input	9-pin MT socket on the rear panel			
RGB and YRGB Input	9-pin D-sub connector (option)			
External Synchronization	9-pin D-sub connector (option)			
Input Connector	2 terminals, BNC, loop-through type on the rear panel			
Input Impedance	15 kΩ			
Input Sensitivity	0.143 to 5 Vp-p (Level of sync signal in			
input ocholdvity	composite video signal)			
Maximum Input Voltage	±8 Vp-p			
Line Selector				
Display Line	13 to 22 and 325 to	14 to 21 lines of first and		
2.001.01	334 lines	second fields		
Blanking Output	00111100			
Output Connector	BNC connector on the rear panel			
Voltage Level	0 V: selected by line selector			
	-2V: for other duration			
Calibration				
Waveform	Square waveform			
Amplitude	1 Vp-p ±1%			
Frequency	32 kHz			
Environmental Conditions				
Operating Temperature	0 to 40°C			
Power Requirements	100, 120, 200, 240 VAC, 50/60 Hz, 45 VA			
Dimensions and Weight	215 (W) x 132 (H) x 429 (D) mm, 7,4 kg			
	8 1/2(W) x 5 1/4(H) x 16 3/4(D) in., 16.3 lbs.			
Supplied Accessories	Scale illumination lamp5			
	9-pin MT plug1			
	9-pin MT plug ······1 Cover/Inlet stopper ·····1			
	Screw, rack mounting(inch size)			
	Screw, rack mounting(inch size)2 Power cord			
	Instruction manual1			
		1		