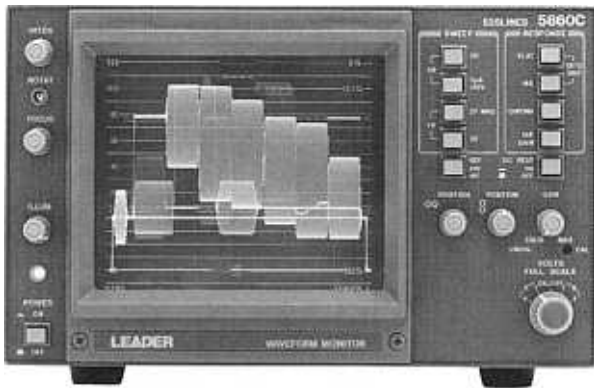


NTSC WAVEFORM MONITOR



Model 5860C

- Two Channels Plus EXT REF
- 1H, 2H, 1V, 2V, Sweeps
- 1 μ s/div Plus 2V MAG
- RGB Standard, YRGB Option
- FLAT, IRE, CHROMA and DIF'D STEP Filters
(The Latter for Y Linearity Checks)
- Picture Monitor Output
- Fits Half-Rack Adapter

The standard workhorse of studio monitoring, the 5860C is ready to handle routine monitoring operations and offers extended operating options such as 1H and 1V sweeps for closer waveform inspection and a differential-step filter to facilitate luminance linearity checks using staircase signals. A DIF GAIN filter also sets up differential gain measurements. The unit syncs to the selected A or B feed or accepts black burst or composite sync as an external reference. An output jack drives a picture monitor with the selected A or B video feed.

KEY SPECIFICATIONS

CRT	VIDEO OUTPUT
Accelerating Potential 12 kV/2 kV	Amplitude 1V p-p rear panel for 140 IRE waveform display
Area 8 x 10 cm	Frequency Response 25 Hz to 5 MHz \pm 5%
Graticule Internal with scale illumination	Impedance 75 Ω \pm 10%
VERTICAL SECTION	HORIZONTAL SECTION
Flat	1H Sweep Displays 1 line of video signal
25 Hz to 3.6 MHz \pm 2%	2H Sweep Displays 2 lines of video signal
3.6 MHz to 5 MHz +2 to -5% of response at 50 kHz	1 μ s/div Sweep Expands 2-line display 10 times
IRE	1V Sweep Displays 1 field of video signal
Based on response per IEEE Std. 205	2V Sweep Displays 2 fields of video signal
Chroma	2V Mag Sweep Expands 2 fields 20 times
Response at 3.58 MHz bandpass filter \pm 2%/Flat	Linearity 3% or less
Differential Gain	RGB/YRGB
Increased 3 to 5.5 times versus chroma	RGB input is connected for standard; YRGB input is optional
Differential Step	Staircase Input
400 kHz bandpass	10 V \pm 15% for 9 div display
Full Scale	Maximum Staircase Input
140 IRE (sync 40 IRE plus video 100 IRE)	12 V p-p (ac plus dc)
Transient Response	Time Base
\pm 2 IRE at 1V full scale, Flat (using sin ² pulse and bar signal)	RGB (3 steps)/YRGB (4 steps)
Tilt (Vertical Window)	Sweep Length
2%	RGB
Deflection Accuracy	About 30% normal sweep
1V full scale, 140 IRE units \pm 2%	YRGB
4V full scale, 140 IRE units \pm 4%	About 22% normal sweep
Variable Range	Control Signal
For 140 IRE-unit display	12 V to 15 V between pins 4 (pos) and 5 (neg)
1V full scale, 0.25 V or less to 1V	RGB/YRGB Input
4V full scale 1V or less to 4V	9 pin socket on rear panel
Maximum Input Voltage	
\pm 5 V dc (1V, 4V full scale)	
Input	
2 sets of loop-through jacks (A or B switchable) on rear panel	
Input Impedance	
1V full scale, 15 k Ω across 50 pF	
4V full scale, 60 k Ω across 50 pF	

DC RESTORATION
Clamp time: back porch
CALIBRATOR
Frequency: 32 kHz
Amplitude: 1V \pm 1%
EXTERNAL SYNC
Input
1 set of loop-through jacks on rear panel
Input Impedance
15 k Ω
Input Sensitivity
143 mV to 5V (Black burst - composite sync)
Maximum Input Voltage
\pm 8V
POWER REQUIREMENTS
100, 120, 220, 240 V ac \pm 10%
50/60 Hz, 45 VA
PHYSICAL
Size (W x H x D)
8 ¹ / ₂ x 5 ¹ / ₄ x 16 ⁷ / ₈ in.
215 x 132 x 428 mm
Weight
14.3 lbs., 6.5 kg
Operating Temperature
0° to 40°C
SUPPLIED ACCESSORIES
Protective Metal Cabinet with Handle & Feet
9 Pin Plug
5 Spare Illumination Lamps
2 Rackmount Screws (8-30 UNC)
Spare Fuse
AVAILABLE OPTIONS
YRGB Capability
Rack Mount Adapter (LR-2400VD)
Protective Front Cover (LC-2077)
Viewing Hood (LH-2015)
PAL Version (5861V)