

# NTSC Waveform Monitor

- Two Channels Plus EXT REF
- 1H, 2H, 2V Sweeps
- 1  $\mu$ 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



Model 5860V



The standard workhorse of studio monitoring, the 5860V 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 FAIN filter also sets up differential gain measurements. The unit syncs to the selected A or B feed or accepts black burst of composite sync as an external reference. An output jack drives a picture monitor with the selected A or B video feed.

## key specifications

### CRT

Accelerating Potential  
12 kV / 2 kV

Area  
80 x 100 mm

Graticule

Internal with scale illumination

### VERTICAL SECTIONS

Flat

25 Hz to 3.6 MHz  $\pm$  2%

3.6 MHz to 5 MHz + 2 to -5% of response at 50 kHz

IRE

Based on response per IEEE std. 23 S-1

Chroma

Response at 3.58 MHz bandpass filter  
 $\pm$  2% flat

Differential Gain

Increased to 5.5 times versus chroma

Differential Step

450 kHz bandpass

Full Scale

150 IRE (sync 40 IRE plus vide 100 IRE)

Transient Response

$\pm$  2 IRE at 1V full scale, Flat (using  $\sin^2$  pulse and bar signal)

Tilt (Vertical Window)

2%

Deflection Accuracy

1 V full scale, 140 IRE units  $\pm$  2%

4 V full scale, 140 IRE units  $\pm$  4%

Variable Range

For 140 IRE-unit display

1 V full scale, 0.25 V or less to 1 V

4 V full scale 1 V or less to 4 V

Maximum Input Voltage

$\pm$  5 V dc (1 V, 4 V full scale)

Input

2 sets of loop-through jacks (A or B switchable) on rear panel

Input Impedance

1 V full scale, 15 k $\Omega$  across 50 pF

4 V full scale, 60 k $\Omega$  across 50 pF

### VIDEO OUTPUT

Amplitude

1 V p-p rear panel 140 IRE

waveform display

Frequency Response

25 Hz to 5 MHz  $\pm$  5%

Impedance

75  $\Omega$   $\pm$  10%

### HORIZONTAL SECTION

1H Sweep

Displays 1 line of video signal

2H Sweep

Displays 2 lines of video signal

1 $\mu$ s/div Sweep

Expands 2-line display 10 times

1V Sweep

Displays 1 field of video signal

2V Sweep

Displays 2 fields of video signal

2V MAG Sweep

Expands 2 fields 20 times

Linearity

3% or less

RGB/YRGB

RGB input is connected for standard;

YRGB input is optional

Staircase Input

10 V  $\pm$  15% for 9 div display

Maximum Staircase Input

12 V p-p (ac plus dc)

Time Base

RGB (3 steps)/YRGB (4 steps)

Sweep Length

RGB

About 30% normal sweep

YRGB

About 22% normal sweep

Control Signal

12 V to 15 V between pins 4 (pos)

and 5 (neg)

RGB/YRGB

9 pin socket on rear panel

### DC RESTORATION

Clamp time: back porch

### CALIBRATOR

Frequency: 32 kHz

Amplitude: 1 V  $\pm$  1%

### EXTERNAL SYNC

Input

1 set of loop-through jacks on rear panel

Input Impedance

15 k $\Omega$

Input Sensitivity

143 mV to 5 V

(Black burst - composite sync)

Maximum Input Voltage

$\pm$  8 V

### POWER REQUIREMENTS

100, 120, 220, 240 V ac  $\pm$  10%

50/60 Hz, 45 VA

### PHYSICAL

Size (W x H x D)

8 $\frac{1}{2}$  x 5 $\frac{1}{4}$  x 16 $\frac{7}{8}$  in.

215 x 132 x 429 mm

Weight

16.3 lbs., 7.4 kg

Operating Temperature

0 to 40 $^{\circ}$  C

### SUPPLIED ACCESSORIES

Protective Metal Cabinet with

Handle and Feet

9 Pin Plug

5 Spare Illumination Lamps

2 Rackmount Screws (8-30 UNC)

Spare Fuse

### AVAILABLE OPTIONS

YRGB Capability

Rackmount Adapter (LR-2400VD)

Protective Front Cover (LC-2077)

Viewing Hood (LH-2015)

PAL Version (5861V)