

## FEATURES

- Generates 875 line Video in accordance with EIR RS-343A specifications.
- Three independent video outputs.
- Two selectable patterns plus a calibrated blank screen.
- Both composite and non-composite video outputs.
- Local or Remote control.
- Operates on 105 to 250 VAC 50/60 Hz.



## DESCRIPTION

The ITS Model 6113B, Video Pattern Generator is an 875 line video signal source designed for setup and performance test of Video Monitors, Video Recorders, and other video processing equipment. Three separate simultaneously operating video outputs are provided. Each output may be configured to provide either one of two patterns or a reference signal which produces a blank image on a display. Either pattern or the reference signal may be selected by front panel switches or remotely via a control port.

The first pattern consists of two, ten level gray scales, at the left and right of center. Additionally the pattern has four vertical "Focus" lines at the center, a border and a single horizontal line at the center.

The second pattern is a ten level gray scale made up of horizontal bars and occupying a window centered in the video frame. The height of the window is 60 percent of the frame and the width is 30 percent of the frame. The gray scale range is black to full white with the brightest bar at the bottom.

The 6113B is housed in a 1U, 19 inch rack mountable aluminum enclosure, 1.72 inch high and 8 inches deep. It is powered by 105-250VAC. The weight is approximately 5.25 lbs



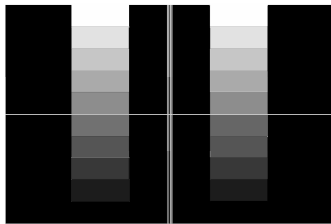
# MODEL 6113B VIDEO PATTERN GENERATOR

## SPECIFICATIONS

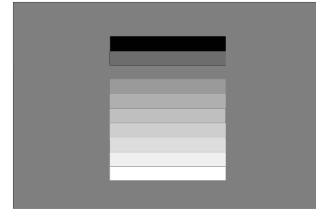
**Composite Video** 875 line composite video in accordance with EIA RS-343A. Interlaced 2:1, 4:3 Aspect ratio. 1 volt p-p, black negative. Output as specified when terminated in 75 ohm load.

**Composite Sync.** 875 line in accordance with EIA RS-343A. Specific timing is as follows:

Horiz Freq:	26246.7 Hz	Vert Freq:	59.9925 Hz
Horiz Sync Period:	38.100 microseconds	Vert Sync Period:	16.6688 microseconds
Horiz Front Porch:	1.000 microseconds	Vert Front Porch:	3 Horizontal lines
Horiz Sync Pulse:	2.750 microseconds	Vert Sync Pulse:	3 Horizontal lines
Horiz Back Porch:	3.250 microseconds	Vert Back Porch:	26 Horizontal lines
Horiz Blanking:	7.000 microseconds	Vert Pixel:	1 Horizontal field line (two frame lines)
Horiz Pixel:	0.05 microsecond		



Pattern A



Pattern B

### Composite Sync Levels

Voltage Range: High =  $4.0 \pm 0.5$  Volts. Low =  $0.0V \pm .5V$ . (Low true) Output as specified when terminated in 75 ohm load.  
Output Impedance: 75 ohms  
DC Reference level: Signal Ground  $\pm 0.1$  Volts  
Rise Time: 114 nsec Maximum.

### Video levels, non-composite

Amplitude:  $1.075 \pm 0.1$  Volts peak-peak. Output as specified when terminated in 75 ohm load.  
Output Impedance: 75 ohms  
White level: 1 Volt  $\pm 0.1$  Volts peak, referenced to Black level.  
Black level:  $.075$  Volt  $\pm 0.025$  Volts, referenced to Blanking level.  
Blanking level: Signal Ground  $\pm 0.1$  Volts.

**Reference Video** 0 volts  $\pm 0.05$  volts with respect to Blanking

**Remote Control** TTL levels or contact closure to ground. 10KOhm pull-ups or discrete inputs.

**Power:** 105-250 VAC  $\pm 10\%$ , 50/60 Hz. 5 watts.

### Environmental

Temperature 0°C to 50°C operating, -20 to 70°C storage  
Humidity 0 to 90% non-condensing, operating  
EMI Designed to meet FCC part 15 Class A standard.

### Enclosure

Size: 1U 19-inch wide, 1.72 inch high, 8-inch deep.  
Weight: 4 lbs.