

# Analog Generator

## SPG170A



SPG170A NTSC Sync Generator.

This product is discontinued.

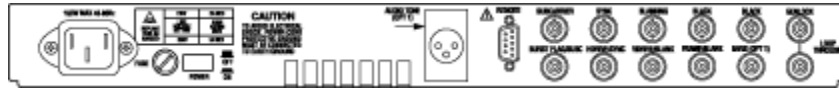
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### CHARACTERISTICS



SPG170A Real Panel.

#### Test Signal and Black Burst Generator

**Luminance Amplitude Accuracy** -  $\pm 1\%$ .

**Chrominance-to-luminance Gain** -  $\pm 1\%$ .

**Output Impedance** - 75 Ohm.

**Return Loss** - 30 dB to 4.2 MHz.

#### Opt. 01 -

Color Bars: SMPTE color bars.

Identification: 12 characters, 7 x 9 matrix.

Audio Tone: 449.55 Hz (locked to vertical), distortion less than 0.01%, 0 to +8 dBu into 150 Ohm, 600 Ohm, or high impedance. Click ID adjustable 0.2 to 4 Hz.

#### Sync Generator

**Subcarrier Stability** - 3.579545 MHz  $\pm 1$  Hz over temperature; typically less than 1 ppm per year drift after initial aging.

#### Black Burst Output -

Setup: 7.5 IRE.

Blanking: 10.7  $\mu$ s.

#### Pulse Outputs (General Characteristics) -

Amplitude: 4.0  $\pm 0.2$  V.

Impedance: 75 Ohm.

Return Loss: 30 dB to 4.2 MHz.

Rise Time: 140 ns  $\pm 20$  ns.

#### Pulse Outputs (Signals) -

Composite Sync.

Blanking: 10.7  $\mu$ s  $\pm 0.1$   $\mu$ s.

Horizontal Blanking Duration: jumper selectable for 10.5  $\mu$ s or 10.9  $\mu$ s.

Burst Flag.

Horizontal Drive.

Vertical Drive.

Color Frame Pulse: field 1, line 11.

#### Subcarrier Output -

Amplitude: 2 V<sub>p-p</sub>  $\pm 0.2$  V.

**Sync Timing Range** - 4  $\mu$ s advance,  
4  $\mu$ s delay.

## Genlock

### Genlock Source (Comp Video) -

Input Configuration: 75 Ohm loopthrough.  
Return Loss: at least 40 dB to 4.2 MHz.  
Burst Amplitude: 286 mV +1 to -6 dB.  
Sync Amplitude: 286 mV +3 to -6 dB.

### Genlock Performance -

Horizontal Timing Range: 8  $\mu$ s advance,  
8  $\mu$ s delay.  
Vertical Timing Range: 0, 1, or 2 lines advance or 1 line delay,  
jumper selectable.  
Burst Lock Range: 3.579545 MHz  $\pm$  20 Hz.  
Jitter: 0.5° maximum.

## Power Source

### Mains -

Voltage Range: 90 to 132 VAC or 180 to  
250 VAC.

**Power Consumption** - 40 W typical, 60 W maximum.

## Environmental

### Temperature -

Operating: 0° to 50° C.  
Nonoperating: -40° to 65° C.

## Physical Characteristics

Dimensions	mm	in.
Height	44	1.734
Width	483	19
Depth	561	22.1
Weight	kg	lb.
Net	6.14	13.5
Shipping	10.4	22.9

## CERTIFICATION

**Safety** - UL1244, CSA231, EN61010-1, IEC61010-1.

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