



IEC-721

Master Black Burst & Color Bar Generator, Gen-Lock



The IEC-721 automatically selects between NTSC or PAL in the Gen-lock mode according to what the reference input is. The unit defaults to the selected standard in the free run mode. The IEC-721 takes advantage of the latest FPGA technology to provide the highest performance for color bar, black burst, or to pattern flash. The color bar patterns are SMPTE for NTSC and 75% for PAL. There are two pairs of independently selectable outputs.

Infinite Vertical and Horizontal Timing

The timing range is infinite for each output pair for both vertical and horizontal. The IEC-721 may be set-up for flashing a small box on and off of the video output. The purpose is to confirm frame synchronizer freeze for remote satellite set-up. There is a front panel eight character display for showing the function under adjustment. Two push-buttons switches are used for "Escape" and "Enter". With the front panel buttons and the rotary encoder the user can easily make adjustments to the unit.

Stand Alone or Gen-lock Mode

The IEC-721 is ideal for use as either a stand alone or a gen-lockable analog generator in any system, making Link Electronics the only choice for an analog timing system to meet both your needs and your budget. The unit receives a reference black burst for timing purposes in the Gen-lock mode, or as a standalone without a reference input in the free-running mode. An infinite Gen-lock timing range makes the IEC-721 ideal for timing the signal into the studio facility. The two outputs of the IEC-721 are independently adjustable over the entire H and V infinite timing range.

SD Analog SMPTE Color Bars

The IEC-721 analog color bar and black burst generator specifically designed for use in RS-189-A (formally 170A) analog applications in both 525/60 and 625/50 systems. A high stability VCXO provides the necessary accuracy for the most demanding requirements.

Exceptional Technical Support

The IEC-721 master black burst & color bar generator is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

Features

- NTSC or PAL
- EIA RS-189-A
- Rotary Encoder
- 10 Bit Processing
- SD Analog Black Burst
- Infinite Vertical Timing

- Infinite Horizontal Timing
- 3 Products Fit Into 1RU
- 8-Character LED Readout
- SD Analog SMPTE Color Bars
- Inactive Looping Reference

- Stand Alone or Gen-lockable
- Bar Flash to Simulate Active Video
- Two Pairs of Independent Outputs

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Composite Analog Output:

Format: Composite Analog
Video Format: 525/60 Hz or 625/50 Hz
Stability: ± 5 Hz
Connectors: BNC
Impedance: 75Ω
Color bar Output(s): SMPTE NTSC, 75% PAL
DC Offset: ± 200 mV maximum
Signal Level: 1.0Vp-p $\pm 10\%$

Reference Input:

Number of Reference Inputs: 1 Set of Looping BNC's
Video Format: 525/60 Hz or 625/50 Hz (NTSC/PAL)
Impedance: 75Ω with Termination
Return Loss: >38 dB to 5MHz
Signal Level: 1.0Vp-p $\pm 10\%$
DC Offset: ± 200 mV

Front Controls & Indicators:

Enter: Momentary Switch w/ Green LED
Escape: Momentary Switch w/ Green LED
Display: Eight Character LED Display
Knob: Optical Rotary Encoder

Environmental/Power (PWT-400):

Temperature: 0° to 50° C Ambient
Humidity: 0% to 90% non-condensing
Power: 3.2 Watts

Mechanical:

Height: 1.0 Inch.
Width: 5.5 Inch.
Length: 9.25 Inch.
Weight: 2.25 Lbs.

