



LEI-522

SD/SDI SMPTE Color Bar & Black Burst Generator with Gen-Lock



The LEI-522 takes advantage of the latest FPGA technology to provide the highest performance for color bar and black burst. The color bar patterns are SMPTE for NTSC and 75% for PAL. The LEI-522 automatically selects between NTSC or PAL in the Gen-lock mode according to what the reference input is and the unit defaults to the selected standard in the free run mode. There are two pairs of independently selectable outputs. The timing range is infinite for each output pair for both vertical and horizontal.

Black Box or Color Bar

The LEI-522 may be setup to flash a box on black burst or color bar. The purpose of this function 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.

Infinite Vertical and Horizontal Timing

The LEI-522 receives a reference black burst for timing purposes in the Gen-lock mode, or as a stand-alone without a reference input in the free-running mode. An infinite Gen-lock timing range makes the LEI-522 ideal for timing the signal into the studio facility. The two outputs of the LEI-522 are independently adjustable over the entire horizontal and vertical infinite timing range. The LEI-522 SDI color bar and black burst generator is specifically designed for use in 601 SDI digital applications in both 525/60 and 625/50 systems. A high stability VCXO provides the necessary accuracy for the most demanding requirements.

Stand Alone or Gen-lockable

The LEI-522 is ideal for use as either a stand alone or a gen-lockable SDI generator in any system, making this unit the only choice for a digital timing system to meet both your needs and your budget. For total flexibility, the PRT-700 mounting tray will hold up to three (3) 500 or 700 series products. Each of the LEI-522's in a rack tray may select either color bar or black burst. Each product may be used to time source videos in a system, by using the black burst output.

Exceptional Technical Support

The LEI-522 Color Bar and Black Burst Generator with Gen-lock 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-189A
- Rotary Encoder
- 10 Bit Processing
- SD/SDI Black Burst

- Infinite Vertical Timing
- Infinite Horizontal Timing
- 8-Character LED Readout
- SD SDI SMPTE Color Bars
- Inactive Looping Reference

- Stand Alone or Gen-Lockable
- Flip between Black and Color Bar
- Two Pairs of Independent Outputs



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Serial Digital Outputs:

Format:	270 Mb/s SMPTE ST 259
Video Format:	525/60 Hz or 625/50 Hz
Stability:	±5 Hz
Connectors:	4 BNCs
Impedance:	75 Ω
Color bar Output(s):	SMPTE NTSC or 75% PAL
DC Offset:	± 500 mV
Rise Time:	555 pS
Fall Time:	530 pS
Jitter:	0.25 ns over a one line period, (non gen-locked)
Signal Level:	800 mV ±10%
Eye Pattern Jitter:	0.17 UI

Reference Input:

Number of Inputs:	1 Looping SD Analog Black Burst
Impedance:	75 Ω
Return Loss:	>38 dB to 5 MHz
Signal Level:	1 V(P-P) ±10%
DC Offset:	±100 mV

Front Controls and Indicators:

Switch, Enter:	Green LED
Switch, Escape:	Green LED
LED Display:	Readout of timing adjustments
Rotary Encoder, Knob:	Adjust Settings

Environmental:

Temperature:	0° to 50°C (ambient)
Humidity:	10% to 90% non-condensing

Mechanical:

Height:	1.5 Inches
Width:	5.5 Inches
Length:	9 Inches
Weight:	1.75 Lbs.

Power Supply (PWT-400):

Input Power:	Auto Detection 100 to 240 VAC at 50/60 Hz
Output:	5 VDC up to 3.2 A
Compliance:	UL Approved



The manufacture reserves the right to change specifications without notice
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