



LEI-523

Master Sync Generator



The LEI-523 Master Sync Generator is a multi-format generator that can be used where various HD signals are required. The analog component outputs can be selected for RGB, YUV or Tri-level sync. Sync output can be selected as Bi-level (SD black burst) or Tri-level (HD sync). With Bi-level and Tri-level outputs, one unit can be used to time both SD and HD source videos in a system (Master Sync Generator). The LEI-523 takes advantage of the latest FPGA technology to provide the highest performance for all test patterns.

Stand Alone or Gen-lock

The LEI-523 can be a free running (stand alone) unit or a gen-lock unit with a pair of looping BNC connectors on the rear panel. The reference input can be Bi-level (SD black burst) or Tri-level (HD sync). The unit automatically detects and locks according to what the reference input is. The unit automatically changes the output format to the closest format that is gen-lockable to the reference. An infinite Gen-lock timing range for both horizontal and vertical with gen-lock indication makes the LEI-523 ideal for timing the signal into the studio facility.

30 Test Patterns, 23 HD Formats and Unit Identification

There are a total of 30 test patterns available, including SMPTE, EIA, and Full Field Bars. There are 23 different HD formats available plus NTSC or PAL black burst. It also has a unit identification that can be enabled to uniquely identify up to 100 different units. This unit can flash the unit identification on and off making the video active allowing you to see if the video is still active when going through other equipment.

User-friendly Setup

There is a front panel eight-character display for showing menu selection or the function under adjustment. There are two front panel pushbutton switches that are used, "Escape" takes you out a menu level and "Enter", takes you in a menu level or makes a selection. The rotary encoder (front panel knob) allows you to change menus or to make an adjustment. All this makes operation of the unit simple and user-friendly.

Exceptional Technical Support

The LEI-523 Master Sync 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

- Looping Reference Input
- Bi-level or Tri-level Reference
- HD YUV or RGB Outputs

- 30 Test Patterns
- Master Sync Generator
- 23 Formats
- Infinite Timing

- Bi-level and Tri-level Outputs
- Unit Identification
- Active Patterns



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Outputs:

HD YUV or RGB Analog: One set of three 75 Ω BNC's
 Level, Y, G, B, & R: 1 V(P-P), $\pm 10\%$ @ 100% Color Bar
 Level, U & V: 0.7 V(P-P), $\pm 10\%$ @ 100% Color Bar
 Level, Sync: Bi-level or Tri-level one 75 Ω BNC, 0.6 V(P-P) $\pm 10\%$

Reference Input:

Reference: 2 High Impedance Looping BNCs, > 50 K ohms
 Type Tri-level (HD) or Bi-level (SD) sync
 Level: 1 V(P-P) +/- 3 dB
 Configuration: Single ended

Environmental:

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

Mechanical:

Height: 1.5 inches
 Width: 5.5 inches
 Depth: 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