



Mounting Frame Options

- 1000 - Single Power Supply, Holds 11 Modules
- 1000/2 - Dual Power Supply, Holds 10 Modules
- 7200 - Mounting Frame, Holds 1 Module

1199

SDI SMPTE Color Bar, Black Burst & Multiburst Generator with Gen-Lock



The 1199 is another family of modules for the DigiFlex 1000 series. The unit automatically selects between NTSC or PAL in the Gen-lock mode. The 1199 defaults to NTSC in the free run mode. For PAL operation, an external PAL black burst signal must be attached to the EXT REF input on the rear I/O. The 1199 takes advantage of the latest FPGA technology to provide the highest performance for a SMPTE color bar generator.

There are two outputs each of SDI SMPTE color bars and the two outputs each of SDI black. The timing range is infinite for each output set i.e. Black and color bars. There is a front card edge LED for displaying the function under adjustment. Two push-button switches are used for "Select" and "Enter". The front card edge LED displays H and V timing numbers for audit and confirmation. The 1199 SDI SMPTE Color Bar generator 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.

An infinite Gen-lock timing range makes the 1199 ideal for timing the signal into the studio facility. The two outputs of the 1199, color bar and black burst outputs are adjustable over the entire H and V infinite timing range. For total flexibility, the 1000 frame will hold up to ten 1199 models, this makes timing of SDI color bar and black an easy task. Each of the 1199's in a frame may select either color bars or black burst.

Each module may be used to time source video's in a system, by using the black burst output. The 1199 is ideal for use as either a master or slave generator in any system, making Link Electronics the only choice for a digital timing system to meet both your needs and your budget. The 1199 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. The unit will operate in the 7200 single module chassis for remote field operation. The 1000 frame holds up to ten modules with dual power supplies of any mix of the 1000 series modules.

Exceptional Technical Support

The 1199 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

- 10 Bit Processing
- SDI SMPTE Color Bars
- NTSC or PAL
- Two Black Burst Output
- Two SMPTE Color Bar Output

- RS-170A Spec
- Gen-lock
- H. Timing
- V. Timing

- Rotary Encoder
- RS-189A
- 7-Segment LED Readout
- Use As Stand-alone

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Serial Digital Outputs:

Format: 270 Mb/s component per SMPTE 259M-1993
Video Format: 525/60 Hz & 625/50 Hz
Stability: ± 5 Hz
Connectors: BNC
Impedance: 75 Ω
Colorbar Output: Two SDI SMPTE Colorbar, 75%
Blackburst Output: Two Black burst
Return Loss: >18 dB
DC Offset: 0.5V maximum
Rise Time: 555 ps
Fall Time: 530 ps
Jitter: 0.25 ns over a one line period, (non gen-locked)
Signal Level: 800mV ± 1 %
CMR: 30Vp-p, up to 60Hz
Equalization: Automatic up to >30 dB
Eye Pattern Jitter: 0.17 UI

Reference Input:

Number of Reference Inputs: 1 NTSC or PAL Black burst
Impedance: 75 Ω
Return Loss: >38 dB to 5MHz
Signal Level: 1 .0Vp-p ± 10 %, Adjustable
DC Offset: ± 100 mV

Front Controls & Indicators:

Switch, Enter: Green LED
Switch, Escape: Red LED
LED Display: Readout of timing adjustments
Set-up: On/Off

Environmental:

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

Mechanical:

Height: 3.2 Inch
Width: 1.0 Inch
Length: 10 Inch
Weight: 7.25 Oz

1099 Rear Cell for 1199

