

VST-101

VIDEO STUDIO TIMER

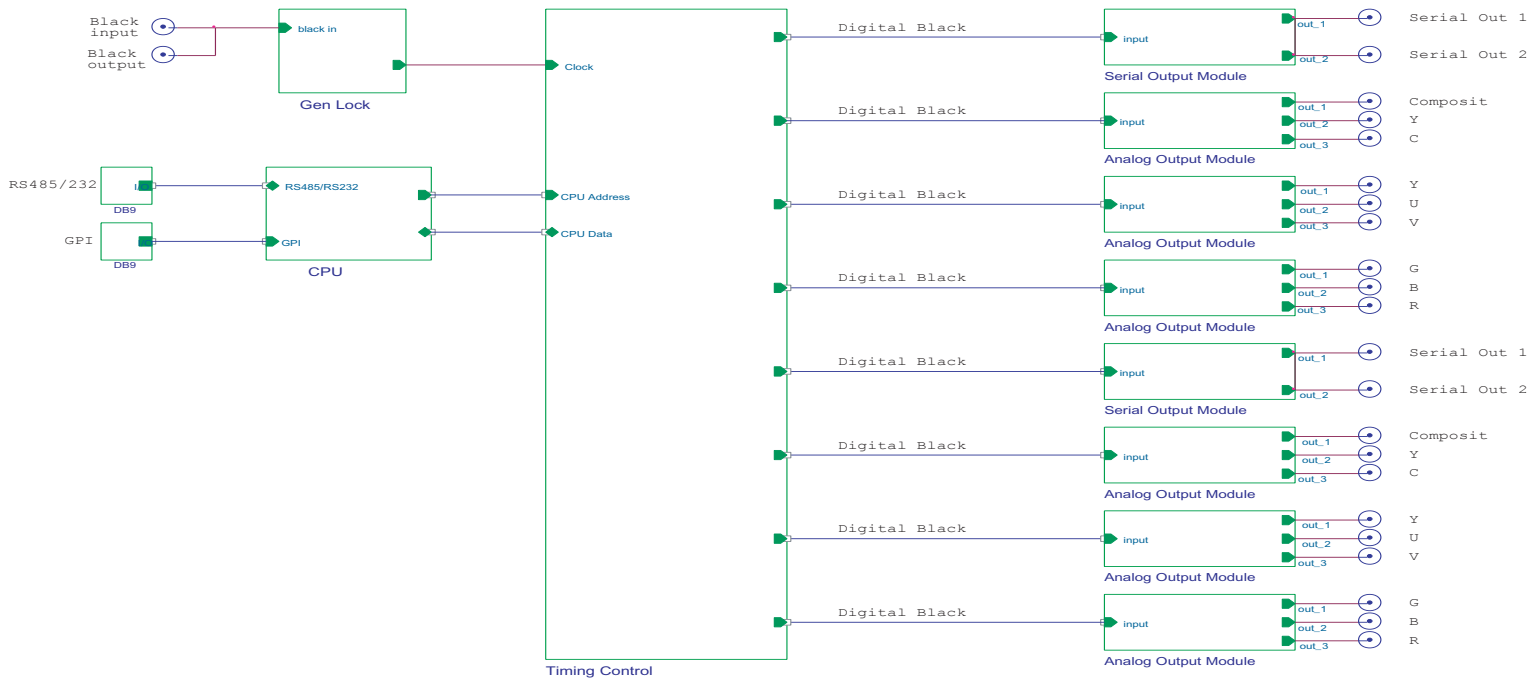


A digital multi-format video studio timer with up to 8 outputs. All outputs of the VST-101 may be configured for different video formats. Each of the eight outputs can be adjusted individually, for subcarrier phase, horizontal and vertical timing. The VST-101 can be configured with 1 to 8 output modules of your choice. The unit can operate standalone or can be genlocked to an external CVBS video source. The VST-101 automatically remembers the unit's last setting.

Features:

- Up to 8 Black outputs
- NTSC- (M/N) or PAL - (B/D/G/H/I/M/N) Standards
- Outputs can be any format: composite, Y/C, YUV, RGB and Serial 601 '10bit'
- Genlock or Standalone operation, frequency stability of 4ppm
- NTSC or PAL operations selectable, via dip switch or GPI
- Subcarrier output adjustment, with full 360-degree range
- Horizontal output timing adjustment, with 1 full line range
- Vertical timing output adjustment, with 1 full frame of range
- 2 x 20 character back-lit LCD display
- All output timing parameters displayed: Subcarrier phase, Horizontal and Vertical timing
- High-resolution continuous turn digital potentiometer is used for all adjustments
- Eight buttons are used for selecting which output is to be adjusted
- Each output select button selects 4 different adjustment modes: Off, Subcarrier Phase, Horizontal timing, or Vertical timing
- 4 'GPI' general purpose inputs
- Redundant power supply option with visual failure alert
- RS485/232 control optional
- Remote panel control optional

VST-101



Main Unit Specifications:

- Time Base accuracy 4 PPM
- Coding 10 bit
- Internal bit rate 27 Mhz
- Jitter line lock < 1.5 ns
- Genlock input 2, 75 Ohm loop-through
- Return loss > 34 Db to 5MHz
- Genlock input: NTSC or PAL black burst
- Genlock Range +/- 20Hz
- Output timing range +/- 1 frame
- Output timing resolution 74ns
- Subcarrier output timing resolution 1.4 degree
- Input power voltage 90 to 132 VAC or 180 to 250 VAC
- Input power frequency range 48 to 62 Hz
- Input Power consumption 35 VA
- Operating temperature range 10 to 40°C.
- Storage temperature range -30 to 65°C

Serial Digital Output Module

The Serial digital output module has two serial outputs to allow you to drive multiple loads, with the same high quality serial data stream.

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| Features: | 2- Serial outputs | 8 or 10 bit operation |
| Specifications: | Output return loss | better than:
15db at 270MHz |
| | Number of outputs: | 2 |
| | Output Data Rate: | 270MHz '601'
Scrambled NRZI. |
| | Output Jitter: | 240ps p-p typical |
| | Output level: | 720 - 880 mv p-p. |

Composite, Y/C, Y/U/V or RGB Output Module

This Highly flexible analog output module can output all NTSC and PAL video standards. The internal D1 data stream is interpolated to 4:4:4 component video. Luminance and chrominance components are digitally combined, and a high-resolution 10-bit Digital to Analog Converter outputs the composite digital signal.

- Features:
- Composite and component video output
 - Composite, Y/C outputs interpolated to 8:8:8
 - Component outputs interpolated to 4:4:4
 - 10 bit high resolution DAC
 - NTSC- (M/N) or PAL - (B/D/G/H/I/M/N) Standards

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|-----------------|---------------------------------|--|
| Specifications: | Differential Phase | better than
0.4° typical, 0.7° max. |
| | Differential Gain | better than
0.3% typical, 0.7% max. |
| | S/N ratio (ramp) | better than 60db rms |
| | Output DC blanking level | 334mv typical |
| | Chroma to Luma gain inequality | +/-1.0% typical |
| | Chroma to Luma delay inequality | 0.5ns typical |
| | Y Frequency response | 6.2Mhz (-3db BW) |
| | Pb/Pr Frequency response | 2.2Mhz (-3db BW) |

Ordering Information

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|-------------|---|
| 175-1300-01 | VST-101 with 1 SDI output module |
| 152-0301-00 | VST-101 Remote control panel |
| 129-1550-01 | SDI output module |
| 129-1551-01 | Composite, Y/C, Y/U/V, or RGB output module |



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