

# VTG-5120 DSI

## 36-bit test pattern source



### High Color Depth Video Signal Source

The VTG-5120 DSI supports the demanding need for high definition and high color depth testing requirements. Color depths up to 3 x 12 bits can be supported at rates up to 300 Mpix/s. In addition to the outstanding output signal performance, the VTG-5120 DSI provides superior flexibility by storing timing files, predefined test pattern and custom made bitmaps internally. The high speed LVDS to TTL interface guarantees the integrity of the 12-bit output signals.

### Supports Silicon Image HDMI 1.3 Starter Kit

The VTG-5120 DSI is designed to directly interface with the Silicon Image CP 9134 HDMI 1.3 Starter Kit. The interface extension attaches directly to the Silicon Image TX card. Interface extensions for various versions of the kit are available.

### Powerful programmability and software support

- USB and RS-232 connection
- Powerfull pattern drawing
- True Color bitmaps up to 12 bits
- Unlimited number of patterns and timings
- Ultra high speed pattern and bitmap switching
- CEA and VESA timing included
- Library of 10 and 12 bit patterns and bitmaps included
- Pattern and bitmap scrolling

# VTG-5120 DSI

36-bit parallel TTL test pattern source



## Specifications

### Pixel Timing

Pixel Frequency 300 Mpix/s

### Horizontal Timing

Scan Range 1 to 1000 kHz  
 Period 128 to 65,535 pixels  
 Sync Pulse 2 to 2048 pixels  
 Back Porch 0 to 2048 pixels  
 Display Resolution 16 to 4096 pixels, active  
 Adjust Step 1 pixel for all parameters

### Vertical Timing

Scan Range 1 to 1000 Hz  
 Period 4 to 4500 lines  
 Sync Pulse 1 to 4096 lines  
 Back Porch 0 to 4096 lines  
 Display Resolution 1 to 4096 lines, active  
 Adjust Step 1 line for all parameters

### Outputs

Digital Video Parallel TTL 36 bits (3 x 12 bit, RGB)  
 Colors 6, 8, 10 or 12 bit color depth  
 Selectable color bit order  
 Connector FX8-80P-SV (80 pin 0.6 mm header)

### System Requirement

Windows™ XP or 2000

### Power

+12 VDC / 4 A  
 (External AC/DC adapter included)

### Dimensions

72 x 211 x 342 mm

### Data Communication

USB USB 2.0 compatible  
 Serial RS-232C, 9 pin D

### Memory size

Display memory 64 Mpixels

### SW Support:

WinVTG User Interface  
 Windows DLL software library  
 Visual Basic and C++ sample programs

All specifications are subject to change

