

# VTG-5120 QLT

30-bit Quad LVDS test pattern source



## Quad / Four channel LVDS output

Unigraf VTG-5120 QLT video pattern generator fits to the demanding need for high definition and high color depth testing requirement for large resolution LCD and PDP panels. It supports single, dual and quad pixel mode LVDS (3 x 10 bits) up to 400 Mpix/s rate with the full 10 bits per color depth.

## Supports present and future needs

In addition to the outstanding output signal performance, the VTG-5120 QLT provides superior flexibility by storing timing files, predefined test pattern and custom made bitmaps internally. These features allow the VTG-5120 QLT to support both present and future high resolution panel and display testing requirements.

## Powerful programmability and software support

- USB and RS-232 connection.
- Powerfull pattern drawing
- True Color bitmaps
- Unlimited number of patterns and timings
- Ultra high speed pattern and bitmap switching
- Pattern and bitmap scrolling
- No additional adaptors needed

## Applications include:

- Manufacturing testing
- Engineering signal source
- QA source of standard signals
- Servicing

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## Specifications

### Pixel Timing

Pixel Frequency	135 Mpix/s single pixel mode 270 Mpix/s dual pixel mode 400 Mpix/s quad pixel mode
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### 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	LVDS (2 x THC63LVD1023) 30 bit (3 x 10 bit, RGB) pixels to 135 Mpix/s single pixel mode 270 Mpix/s dual pixel mode 400 Mpix/s quad pixel mode
Colors	6, 8 or 10 bit color depth Selectable color bit order
Connectors	4 x MDR-26 DISM1.0

### 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

### 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



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