VTG-5225 DP

deep color multifunction
DisplayPort™ reference source

UNIGRAF

High Color Depth Video Signal Source

Unigraf VTG-5225 DP video pattern generator is an optimum solution for testing workstation monitors with analog RGB, digital DVI and DisplayPort™ input. It provides a versatile set of features needed for testing the full resolution spectrum and the full color depth of modern displays. The optional DisplayPort™ CTS tools for Link Layer and HDCP are certified for DP LL and HDCP CTS testing.

Supports present and future needs

In addition to the outstanding output signal performance, the VTG-5225 DP provides a superior flexibility by storing timing files, predefined test pattern and custom made bitmaps internally. These features allow the VTG-5225 DP to support both present and future high resolution panel and display testing requirements.

Powerful programmability and software support

- RGB, DVI and Display Port™ outputs
- USB connection
- Powerfull pattern drawing
- True Color bitmaps
- Unlimited number of patterns and timings
- Ultra high speed pattern and bitmap switching / scrolling

Applications include:

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

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Specifications

Pixel Timing

| Pixel Frequency | 300 Mpix/s single pixel mode |
| | 330 Mpix/s dual pixel mode |

Dual-Link DVI

	165 Mpix/s single link maximum
	330 Mpix/s dual link maximum
True Color	8 bits per component (24 bits RGB)
Connector	DVI-I with TMDS and RGB

Analog Video

VGA	RGB
	300 Mpix/s maximum
Sync	HS (±), VS (±), C-Sync, SOG
True Color	10 bits per component (30 bits RGB)

HDTV	RGB (non filtered / filtered)
	300 Mpix/s maximum
Sync	Sync on Green
	Separate HSync (±) and VSync (±)
True Color	10 bits per component
	(30 bits per RGB)

DisplayPort™

	Genesis gm60028 transmitter
	Supports 1, 2 or 4 lane configurations
	Supports all four levels of pre-emphasis and voltage swing
	Supports high and reduced bit rates

Supported Video Formats

All VESA DMT/CVT formats up to WQXGA 60 Hz (2560 x 1600)
All CEA 861-D formats
Custom formats including 1366 x 768 up to 270 Mpix/s pixel rate

| Deep Color | 8, 10 or 12 bit color depth, true color RGB or YCbCr 444 or YCrCb 422 |

Video Frame Buffer

User accessible memory 64 Mpixels, 36 bits/pixel for storing patterns and bitmaps, allowing frame-to-frame and scrolling animation etc.

| **Audio** | S/PDIF input for external audio source |

System Requirement

Windows™ XP

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 Dsub (for extrernal keypad) |

SW Support:

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

Options

| VTG-5225 DP-LL | Link Layer Compliance Test System Certified for DP LL CTS testing |
| VTG-5225 DP-HD | HDCP Compliance Test System Certified for DP HCDP CTS testing |

All specifications are subject to change

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