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

VTG-5225 DP
deep color multifunction
DisplayPort™ reference source

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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/CTV 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 external 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