

VTG-5225 DP

deep color multifunction
DisplayPort™ reference source



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 support version 1.1a functionalities.

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

DVI

Dual-Link DVI
165 Mpix/s single link maximum
330 Mpix/s dual link maximum
8 bits per component (24 bits RGB)
DVI-I with TMDS and RGB / YPbPr

True Color
Connector

Analog Video

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

HDTV

RGB / YPbPr (filtered)
300 Mpix/s maximum
Sync Tri-level sync on Green
Separate HSync (±) and VSync (±)
True Color 10 bits per component
(30 bits per RGB / YPbPr)

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

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
According to VESA DisplayPort™ Link
Layer Compliance Test Standard
VTG-5225 DP-HD HDCP Compliance Test System
According to VESA DisplayPort™
HDCP Compliance Test Standard

All specifications are subject to change

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