

DisplayPort™ Reference Sink PC



DisplayPort™ Reference Sink

Unigraf DisplayPort™ Reference Sink is an optimum solution for testing DisplayPort™ 1.1 Source devices. It implements the full requirements set in DisplayPort™ specification for deep color and it supports all display modes up to WQXGA resolution. The device is audio ready. Options include e.g. Link Layer and HDCP Compliance testing features.

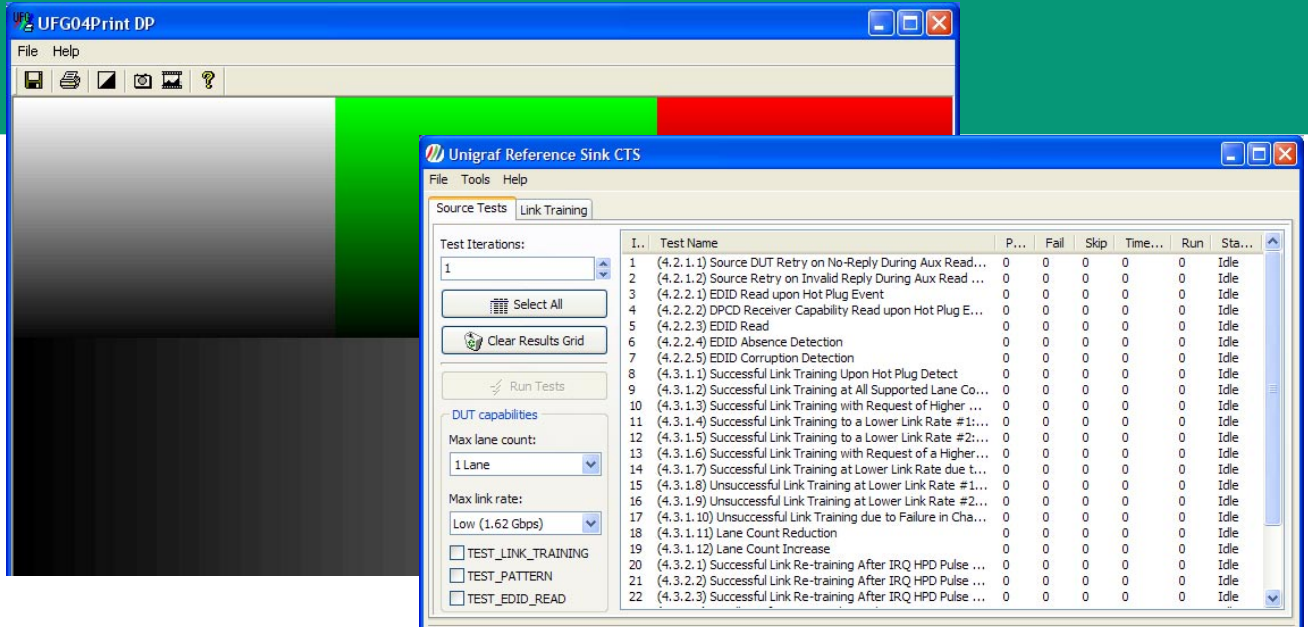
The Reference Sink is a complete Microsoft® Windows XP platform with a DisplayPort™ input module, the required testing software and tools. It includes an image capture feature for monitoring and storing the received DisplayPort™ input frames for testing flow control or optionally automated quality control purposes.

Benefits

- Captures images from any DisplayPort™ source device
- Full 36 bits per pixel color depth
- Capture resolution up to WQXGA (2560 x 1600)
- Up to 512 Mpixels frame buffer
- Audio with optical S/PDIF output
- Preview capture on standard monitor
- User programmable EDID for emulation of any monitor model
- DisplayPort™ Link Layer CTS test
- DisplayPort™ HDCP CTS test (TBD)



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Specifications (Preliminary)

DisplayPort™

DisplayPort™ input	DisplayPort™ connector
	Genesis GM 68020 receiver chip
Color spaces	RGB or YCbCr
Capture Pixel Depth	24, 30 or 36 bits per pixel (36 bits only YCbCr)
Resolutions	All VESA DMT/CVT and CEA 861-D timings up to WQXGA (RB) 60 Hz (2560x1600)
Link bandwidth	10.8 Gbps over 4 lanes
Number of lanes	1, 2 or 4 Main Link lanes
EDID	User programmable

Image Capture

Image Buffer	256 MBytes (2 GBytes optional)
Capture Modes	Last frame, every n:th frame, frame- to-frame buffer save.
Capturing Preview	Preview window on control monitor

Audio

S/PDIF optical output (TBD)

PC

CPU	Intel/VIA
Operating system	Windows XP
Hard disk	100 GB
Interfaces	Keyboard, mouse, LAN, 2 x USB, serial port, audio
Control monitor	Analog VGA (1600 x 1200 max)
Power supply	100 to 240 VAC, 50/60 Hz, 80 W max, External AC adapter
Mechanical dimensions	72 x 211 x 342 mm
Operating temperature	+5°C to +40°C

Options (Preliminary)

Option L	DisplayPort™ Link Layer CTS, VESA DP Compliance Test Standard suite
Option H (TBD)	DisplayPort™-HDCP Compliance Test Specification suite



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