

UCD-400

DisplayPort™ 1.4 and HBR3 test platform



Test 8K

UCD-400 is an interface test unit for verifying DisplayPort™ interfaces up to 8K@30 Hz and 4K@120 Hz video modes. It is a flexible and robust tool either via a GUI on a laboratory desktop or via automated functionality tests. The associated software provide the user access to the vital parameters and controls needed when evaluating the various functions of the interface.

For R&D and Test Automation

UCD-400 supports both hands-on debugging and running extended automated test sequences. UCD Console GUI is a preview and test application for desktop use. Each interface function has a well structured dialog for superior at-a-glance viewability.

Unigraf TSI is a test software API that provides the system integrator a fast and reliable way for ensuring the functionality of the tested equipment.

Validation Tool

UCD-400 is platform for both DP 1.4 Link Layer and HDCP 2.2 Compliance Tests. You can use the same unit for testing both Sink and Source DUT. Capability for testing Repeaters will be added later. The unit supports FEC, DSC Sink and LTTPR. Please contact Unigraf for details.

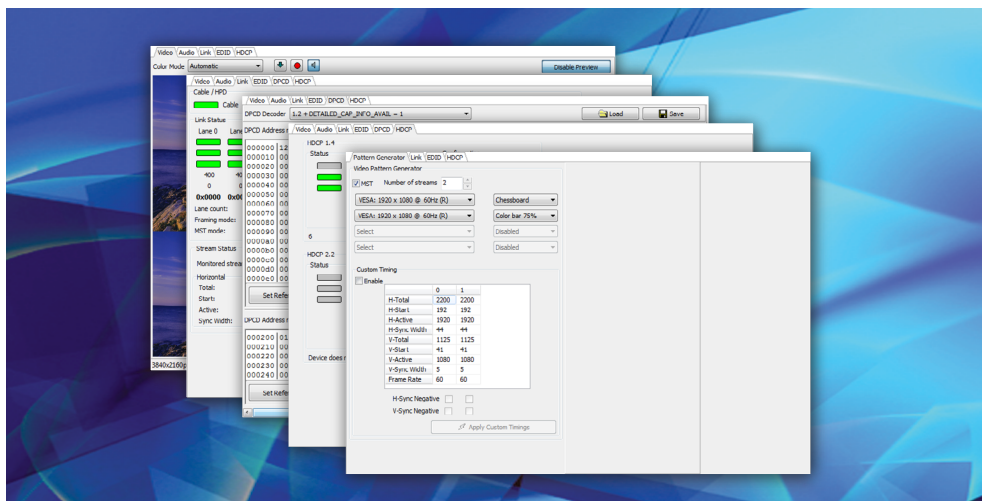
Highlights

- 8K and 4K compliant test equipment
- DP 1.4 Link Layer and HDCP 2.2 Compliance Test
- DP 1.4 / HBR3 input and output in one unit
- USB-C input and output with supplied converter cable
- MST support (4 streams)
- DSC Sink, FEC and LTTPR support
- HDCP 1.3 and HDCP 2.2 support
- Capture and source video and audio. Set configuration parameters
- UCD Console GUI for debugging
- High level API for easy integration



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UCD Console GUI

The graphical user interface for R&D debugging is called UCD Console. It provides the user a flexible way of navigating between the interface based Roles of the device and the functionalities of each Role.

UCD Console features a preview windows for the received video and audio, monitoring and controls for the link parameters and built-in pattern generator in UCD-400. UCD Console also features an EDID editor and access to the state and control of HDCP function.

UCD Console is the user interface for DP 1.4 Link Layer and HDCP 2.2 Compliance Test tools.

High Level Test Functions

Unigraf high level test software interface TSI (Test System Interface) provides the System Integrator a set of reliable and short cycle time interface specific tests. TSI readily implements the low level procedures needed for verifying the various functions of the tested interface and the required software integration is minimal.

Specifications

Input	DP 1.4 (8K@30 Hz / 4K@120 Hz)
Output	DP 1.4 (8K@30 Hz / 4K@120 Hz)
Content Protection	HDCP 2.2, HDCP 1.3
DSC Capability	DSC 1.2a sink support Support RGB / YCbCr up to 12 bits per component 2 slices, max width 2560 pixels Pixel clock 120 MHz max.
Additional features	MST* FEC, LTTTPR* DP 1.4 LL CTS* HDCP 2.2 CTS*
Computer Interface	USB 3.0
Operating System	Windows 10, 8 and 7
Software	UCD Console GUI TSI API with interface specific Test Sets
Power Input	+12 Vdc (AC/DC converter included)
Module Size	272 x 170 x 60 mm
Weight	1.2 kg

*) Please contact Unigraf for availability

All specifications subject to change without notice.



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