UCD-323 Gen2
4K Generator & Analyzer for HDMI and DP

4K UHD

AUX CONTROLLER | PHY CTS
HDCP 2.3 | CTS

Test 4K Receivers and Transmitters

UCD-323 Gen2 is a fully-featured R&D debug tool for testing all aspects of HDMI 2.0 and DisplayPort 1.4 with HBR2 max bit rate capability. UCD-323 Gen2 combines Reference Source and Reference Sink functionality in one unit.

AUX Controller for PHY CTS

UCD-323 Gen2 is a companion tool for PHY test equipment to perform automated DP 2.0 PHY compliance testing for Source and Sink DUTs. AUX controller is supported only in Unigraf's TSI (Test System Interface).

Approved HDCP 2.3 CTS Test Tool

UCD-323 devices are approved by DCP LLC for HDCP 2.3 Compliance Testing on DisplayPort Transmitter and Receiver devices. HDCP 2.3 Compliance Test capability is an add-on feature to the UCD Console GUI. The software add-on can be purchased separately for testing transmitter or receiver devices.

Enhanced Audio Return Channel

UCD-323 Gen2 expands the possibilities of its HDMI ports by adding eARC input and output ports. UCD-323 Gen2 isable to play and capture audio content.
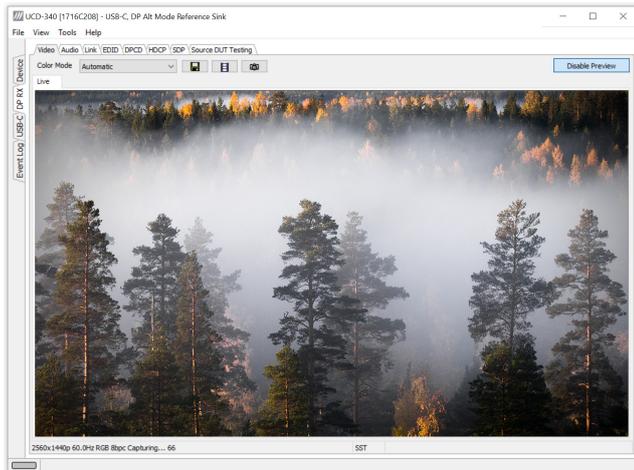
Highlights

- UHD / 4K compliant test equipment
- HDMI 2.0 and DP 1.4 input and output in one unit
- AUX controller for PHY tests
- AUX sensitivity test support
- eARC test tool
- DCP approved HDCP 2.3 CTS test tool
- HDCP 1.3 and HDCP 2.3 support
- Sink and source video, audio and configuration parameters
- USB 3.0 connected

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UCD-323 Gen2 4K DisplayPort and HDMI Generator & Analyzer

Platform for Test Automation

Automated tests help us save time and remove human errors from testing. All tests supported by Unigraf's test tools can be automated from simple R&D debugging tests to complicated compliance tests and fast-paced production line tests. There are different ways to automate tests and Unigraf's test automation solutions make sure that you find the best solution for your needs.

Run automated tests straight from the command line by using C++ code. Unigraf also provides users with a library of scripts that can be used an example for detailed tests. The scripts are run through Unigraf's Test System Interface (TSI) which is the test software API that allows system integrators a fast and reliable way for ensuring the functionality of the test equipment. These scripts can be used to automate all the tests available in the UCD-323 Gen2, including Compliance Tests for HDCP 2.3.

UCD Console GUI

The UCD-323 Gen2 Graphical User Interface (GUI) is called UCD Console. It provides users with a flexible way of navigating between its sink and source roles and functionalities of each role. Available functionalities include preview windows for captured video and audio, video and audio pattern generator, data logger for AUX and metadata content, link and DPCD register monitoring and control dialogs, EDID editor, HDCP status and control functions etc. UCD Console is delivered with ready-made test sets (e.g. content check-sum tests and Link Training tests) for testing HDMI Sinks and Sources.

Specifications

Inputs	DP 1.4 (4096×2160p60 max) HDMI 2.0 (4096×2160p60 max)
Outputs	DP 1.4 (4096×2160p60 max) HDMI 2.0 (4096×2160p60 max)
Content Protection	HDCP 1.3 / 1.4 HDCP 2.3
Computer Interface	USB 3.0
Operating System	Windows 10, 8, 7, MacOS*, Linux*
Software	UCD Console GUI TSI API with interface specific Test Sets
Power Input	+12 Vdc (AC/DC converter included)
Module Size	281×128×62 mm
Weight	900 g (w/o AC/DC converter)

*Please contact Unigraf for availability