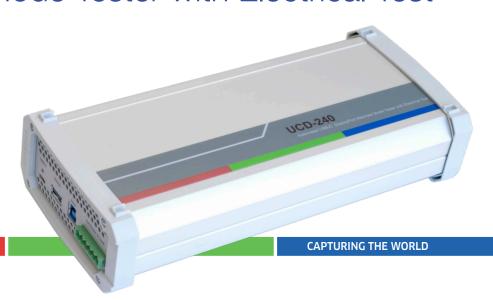
# UCD-240

# Automated USB-C<sup>™</sup> DisplayPort<sup>™</sup> Alt Mode Tester with Electrical Test





## For Automated Production Line Testing

UCD-240 is an automated test tool for testing USB-C products in production line environment. UCD-240 features an efficient and effortless way of testing e.g. video, audio and interface signal continuity of USB-C. UCD-240 test coverage includes DisplayPort Alt Mode, Power Delivery, USB 2.0 and USB 3.0 functionalities. UCD-240 also supports HDCP 1.3 and HDCP 2.2. UCD-240 comes with built-in test sets for automated CRC, Link and Electrical tests. The provided software enables user access to the vital test parameters and all tests can be easily run from the command-line. Further, Unigraf's TSI or third party Test Management Software can be used as a platform to run any automated tests on UCD-240.

## Unique Electrical Tests

UCD-240's Electrical Test can verify whole USB-C connector with a single cable insertion. Electrical Test verifies that all the connector pins are properly soldered. With Electrical Test you can make sure that components in the DUT are functional and soldering and assembly of the components is done properly.

## Complete Set for Automated Testing

UCD-240 comes as a complete set of tools for test automation use. The delivery content includes all necessary TSI Software with licenses, Electrical Testing cable supporting automatic CC line flip and USB 3.0 flash drives with pre-stored sequence files.

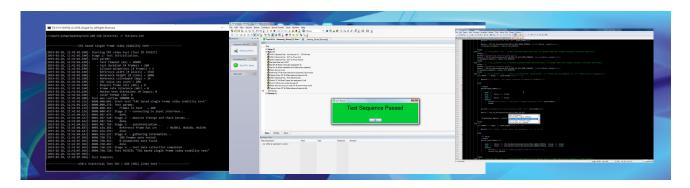
#### **Highlights**

- Automated tests for USB-C™ DisplayPort™ Alt Mode
- Electrical Test to verify whole USB-C connector with single cable insert
- Test USB 2.0 and USB 3.0
- 4K@60 support
- Easily set test parameters with provided Software
- Easily run tests from the commandline
- Unigraf's Test System Interface (TSI) Support
- Third Part Test Management Software Support e.g. NI TestStand Support



# UCD-240

### USB-C DP™ Alt Mode Test Tool for Test Automation



#### Run tests from the Command-line

Provided Software is used for specifying all test parameters used in the automated tests. You can easily select and modify all necessary test parameters according to your DUT needs. Desired tests can be run straight from the command-line.

### **Unigraf's Test System Interface (TSI)**

UCD-240 can also be used with TSI. Unigraf's SDK for test automation is called Test System Interface (TSI). TSI is a hardware independent, high level Software API (Software Application Interface). It offers compact and short cycle time test routines with which the functionality of most common display interfaces can be verified.

The use of TSI and the Test Cases significantly simplifies integrators' need to do application specific programming. TSI ensures the compatibility of the application software with any Unigraf test equipment hardware. Both TSI and Test Cases ensure the user flexibility for future upgrades and, what is a major cost factor, re-use of the written code of software

# Run Automated Tests with Third Party Test Management Software

UCD-240 is also compatible with third party Test Management Software e.g. NI TestStand. You can create your own tests or use the tests available to run automated tests with third pary Test Management Software.

## Specifications

Product Number 066415

> USB Type A (Device) pass-thru USB Type B (Host) pass-thru

External Power Source / Sink connector

DP over USB-C Resolution up to 4096×2160p60

Up to HBR2 rate in up to 4 lanes HDCP 1.3 and HDCP 2.2 Support

USB Over USB-C USB 3.1 Gen1 (5 Gbps) and USB 2.0

pass-thru

USB Power Delivery Sink and source 5 V up to 3.0 A,

up to 20 V / 5 A with external power test

unit (Optional)

Electrical Test Verify functionality of USB Type-C

interface signals (VBUS, GROUND,

CC1/2, SBU1/2).

Computer Interface USB 3.0

Operating System Windows 10, 8, 7 and Linux

Software Scripting Tool

Command-line

TSI API with ready Test Cases
Third party SW e.g. NI TestStand

Environment Operating temperature: 0 ... +40°C

Storage temperature: -20 ... +60°C Relative humidity: 10 ... 80%

Power Input +12 Vdc (AC/DC converter included)

Module Size 281×128×62 mm

Weight 900 g (w/o AC/DC converter)

Warranty 12 months



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All specifications subject to change without notice.