

# UCD-240

## Automated USB-C™ DisplayPort 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.

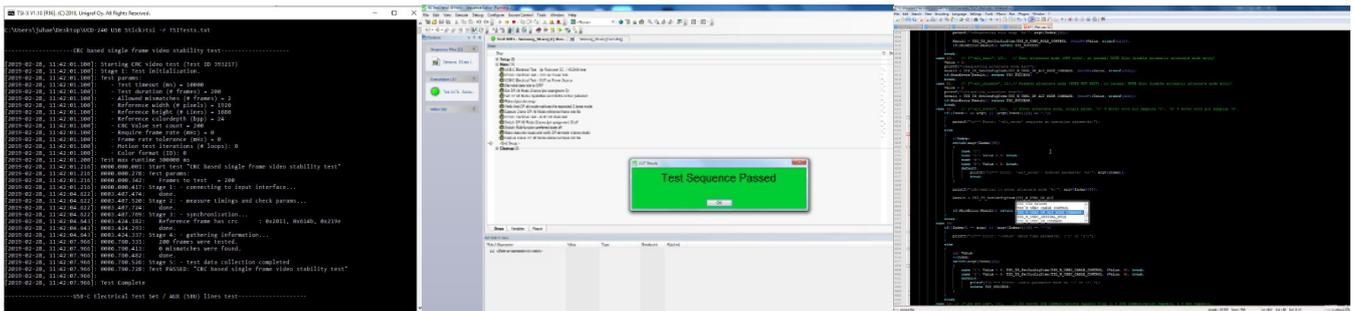
### Unique Electrical Tests

UCD-240's Electrical Test can verify whole USB-C connector with 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. 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 command-line
- 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



## 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

### 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 party Test Management Software.

## Specifications

Product Number	066415
Test connections	USB Type-C (Dual role port) USB Type A (Device) pass-thru USB Type B (Host) pass-thru External Power Source / Sink connector
DP over USB-C	Resolution up to 4096x2160p60 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	281x128x62 mm
Weight	900 g (w/o AC/DC converter)
Warranty	12 months

