UCD-422

HDMI 2.1 Video Generator & Analyzer

PRELIMINARY

8K Video Generator & Analyzer

UCD-422 is a video generator and analyzer for testing HDMI 2.1 interface up to 8K video modes. Resolutions up to 8K@60 fps are supported. UCD-422 offers support for FEC, DSC Sink & Source and aARC*. HDCP 2.2 and HDCP 2.3 are also supported. UCD-422 is a flexible and robust tool either via an easy-to-use GUI for R&D debugging or via automated functional tests. UCD Console GUI provides the user access to the vital parameters and controls of the tests.

* Contact Unigraf for availability

Dolby Vision™ Test Tool

UCD-422 is an official Dolby Vision™ test tool. Unigraf provides capturing of the video and audio via the UCD-422. UCD Console GUI provided with the UCD-422 shows the capturing of video. Dolby provides customers with the software package that analyzes the Dolby Vision™ video captured with the UCD-422.

UCD Console GUI

The graphical user interface for R&D debugging is called the UCD Console. It provides the user with a flexible way of navigating be tween the interface based roles of the device and the functionalities of each role. The UCD Console features a preview window for the received video and audio, monitoring and controls for the link parameters and built-in pattern generator.
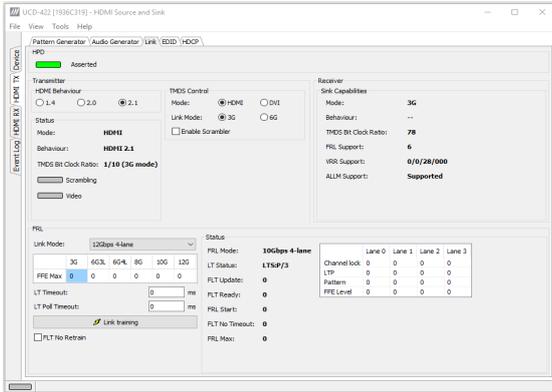
Highlights

- HDMI 2.1 Test Equipment (FRL)
- Enhanced Gaming Features (VRR, ALLM)
- FEC, Forward Error Correction
- HDCP 2.2 & HDCP 2.3 support
- TMDS Support
- Dolby Vision™ Test Tool
- 8K@60 fps Support (12 Gbps/channel)
- eARC Support *(end of 2019)*
- DSC Support *(ESTIMATED 2020)*
- UCD Console GUI for debugging
- High level API for easy integreation

Video Analyzer Software *(ESTIMATED Q1/20)*

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Fixed Rate Link (FRL)

Fixed Rate Link (FRL) is the new video transport method in HDMI 2.1. The UCD-422 can identify interoperability issues on FRL capable source and sink devices. Users can verify if an image is captured correctly on the UCD Console when testing source devices using different FRL modes.

Enhanced Gaming Features

Check the availability of enhanced gaming features on sink and source devices that support Variable Refresh Rate (VRR) and Auto Low Latency Mode (ALLM). By supporting these enhanced gaming features, the UCD-422 makes for a complete test tool for game console and display manufacturers.

8K Dolby Vision™ Test Tool

The UCD-422 upgrades it Dolby Vision™ testing capabilities to the HDMI 2.1 interface by supporting resolutions up 8K@60 fps. The UCD-422 is an integral tool for television, game console, and mobile device manufacturers that want to have their products certified by Dolby Vision™.

Specifications

Input	HDMI 2.1 (8K)
Output	HDMI 2.1 (8K)
Content Protection	HDCP 2.2, HDCP 2.3
Additional features	eARC, DSC, FEC
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

All specifications subject to change without notice.

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