

CES 2017: Rohde & Schwarz presents new HLG test solution for latest-generation video consumer electronics

Rohde & Schwarz is expanding its R&S VTx video tester family to include tests for HLG-capable devices in line with the HDMI 2.0b standard. Hybrid Log-Gamma (HLG) is an enhancement to the high dynamic range (HDR) technique that allows good-quality replay of state-of-the-art picture material even on non-HDR-capable devices. This is a crucial factor in the successful introduction of the spectacular HDR technique for a more intensive and realistic home theater experience.

Munich, January 4, 2017 — The Rohde & Schwarz R&S VTC/VTE/VTX video tester family is an innovative solution for testing the performance and interoperability of future generations of HDR/HLG-capable video consumer electronics. It is based on the recently introduced flexible T&M module for HDMI and HDR tests. The new module offers generator and analyzer functionality for data rates up to 18 Gbit/s as well as functions such as scrambling introduced with the new HDMI standard. Now it can also test HLG-capable devices. This includes testing and emulation of the signaling function and the generation of new test patterns.

The solution is downward compatible with HDMI 1.4 and supports HDCP 1.4 and HDCP 2.2. It covers realtime protocol testing and compliance testing in line with HDMI CTS 1.4/2.0, providing users with a test tool that can be used in various applications throughout the consumer electronics value chain.

The generator function can be used to edit the Dynamic Range and Mastering InfoFrame specifically for HDR and HLG. It displays the Enhanced Extended Display Identification Data (E-EDID) of the connected sink, including the HDR metadata block. It also permits the playback of customer-specific, uncompressed moving picture sequences. The analyzer unit provides suitable E-EDID and displays the Dynamic Range and Mastering InfoFrame. The video analyzer functionality provides bit-accurate display of the electro-optical transfer function (EOTF) in use. HDR CTS tests are available for both the generator and the analyzer.

Rohde & Schwarz will present its T&M solutions from January 5 to 8, 2017, at CES 2017 in Las Vegas at the HDMI Licensing, LLC booth, South Hall 1-20930.

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Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in all fields of wireless communications as well as in IT security. Founded more than 80 years ago, the independent company has an extensive sales and service network with subsidiaries and representatives in more than 70 countries. On June 30, 2016, Rohde & Schwarz had approximately 10,000 employees. The group achieved a net revenue of approximately EUR 1.92 billion in the 2015/2016 fiscal year (July to June). The company is headquartered in Munich, Germany, and also has strong regional hubs in Asia and the USA.

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