TELEDYNE LECROY
Everywhereyoulook™

quantumdata™ M41h/980 48G module Video Analyzer/Generator

Passive DDC Monitoring – Diagnose HDMI Connection Problems

DDC Passive Monitoring *Optional* Feature

- **Passively monitor HDMI DDC between an HDMI source and sink to view FRL Link training, HDCP and EDID transactions.**
- **This new passive DDC monitoring feature is available with the M41h or the 980 48G module.**

The Teledyne LeCroy quantumdata M41h and 980 48G module for HDMI 2.1 Testing supports video, audio and protocol functional testing of high-end HDMI displays and sources. These instruments supports 12G data rates per lane and aggregate link rate of 48Gb/s.

The HDMI DDC passive monitoring feature (P/N 95-00230) supports passive monitoring of the HDMI DDC channel between a source and display in the FRL or TMDS mode. This feature enables analysis of FRL link training and HDCP interoperability problems between devices. *The solution uses a custom cable* provided by Teledyne LeCroy.

Connection Table for Passive DDC Cable

Connector:	To Source Tx	To Sink Rx	To TE In/R
Connection:	Connect to HDMI Source out port A	Connect HDMI Sink In port B	Connect to TE (M41h or 980 48G mod.) Rx In port C

P/N 932885-00
HDMI DDC Passive Monitor Cable

TELEDYNE LECROY
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Local sales offices are located throughout the world.
Visit our website to find the most convenient location.

933100-00 Rev 3 - v0323

AUX CHANNEL ANALYZER (ACA)

DDC Passive Monitoring Feature

The DDC passive monitoring feature is an optional feature that enables developers and test engineers to investigate connection interoperability problems involving EDID exchange, FRL link training and HDCP authentication between two (2) HDMI 2.1 devices.

The ACA utility shown below provides insight into all the EDID, FRL link training and HDCP authentication transactions. The ACA utility provides precise timestamps for each transaction. The data viewable in the ACA can be filtered and searched using a variety of criteria. The ACA data can be exported and shared with subject matter experts at other locations or with Teledyne support personnel.