

Teledyne LeCroy: quantumdata 780E Firmware Release 18.08
 Sep 13, 2018
 Release Notes

Overview

This document provides information on Release 18.08 of the firmware for the quantumdata 780E Video Generator/Protocol Analyzer. For further information on the 780E, please refer to the User Guide available on our website at www.quantumdata.com.

Installation Instructions

1. Go to the downloads page <http://www.quantumdata.com/downloads.html>
2. Select the 780 Series Tab
3. Select and download the official release for the 780E Multi-Protocol Analyzer/Generator
4. Extract the files from the download zip.
5. Format an SD card using a SD Card format tool such as that available at <https://www.sdcard.org/downloads>
6. Copy all files to a SD card's root directory and insert the card to device.
7. Power on the unit.
8. Go to the Help menu and perform Application Flash Update.
9. When complete, reboot the device.
10. Go to the Help menu and perform FPGA Flash Update.
11. When complete, reboot the device.
12. View the help Menu on the 780E and validate the software versions per Table 1
13. If the software versions match, the upgrade is complete. Remove the SD card from the 780E.
14. If the software versions DO NOT match, perform the following:
 - a. Go to Help Menu and perform Program Other Chips (Press View)
 - b. Update HDMI 2.0 RX Flash and wait for completion
 - c. Update HDBaseTTxFlash and wait for completion
 - d. Update HDBaseTRxFlash and wait for completion
 - e. Verify the software versions again.
 - f. Remove the SD card from the 780E

Table 1: Firmware versions

Software	FPGA	HDMI2	HDBT
SW 18.08.3163	Tx: 18010202		Tx: 13140210
	Rx: 18042401	Rx Ver1.99.17_d0	Rx: 13140200

780E Release 18.08: New Features

This release enables two new SKU's

- 00-00251 - Introducing a new low-cost variant of the 780E for customers who do not require Display Port functionality.
- 95-00172 – License to enable Display Port functionality on 00-0251 should the customer require it in the future.

780E Release 18.08: Fixes and Enhancements

HDMI

- Fixed DDC setup and hold times on HDMI TX

HDBaseT

- HDBaseT RX information can now be saved using the Reports option
- Remote HDBaseT Tester now provides a more accurate MaxErr/MSE reading

Display Port

- Added DP_PWR pin check in DisplayPort cable test to ensure it is disconnected
- DisplayPort RX Link Training status displayed in RX selection menu

HDCP

- Fixed DisplayPort HDCP 2.2 write of Stream Type to Sinks
- Improved HDMI HDCP 1.x authentication with Repeaters

Test Pattern

- Added MaxellBW test pattern on 780E
- Gray step patterns work in YPbPr now

GUI Related

- Warn users about trying to do Remote PRN test in a non-RGB color space
- Disables "scroll" button in EMI H/Grill pattern menu when Grill is selected
- In the Reports menu, report type is saved upon pressing "Start Report"
- Chip firmware versions are now properly shown in the Help menu

Command Line

- CPGG? query now properly reflects HDCP status 0 = none 1 = 1.4 HDCP 2 = 2.2 HDCP
- CPAG 0/1/2 Allows enabling/disabling HDCP 1.4/2.2 Rx for HDMI, DP, and HDbaseT ports
- HDCP 0/1/2 Allows enabling/disabling HDCP 1.4/2.2 TX for HDMI, DP, and HDbaseT ports

- HDBT:QUAL? can now be used remotely with HDBT Remote Tester
- AVMG now works properly

Audio Related

- GUI Recommends pseudo-random pattern when compressed audio is used now on 7" LCD units

Other

- Fixed issue with loading bitmaps from SD cards
- Fixed issue when changing between certain video formats on 780E transmitters that caused video to stop being transmitted
- Fixed issue with the Aux Combo Test image where unit hangs in certain situations
- Improved matching of Video Formats with CTA VICs in Video Format Analyzer test
- When Hot Plug Formats are used, and the primary DTD matches a CTA timing, the CTA VIC is also sent in the AVI InfoFrame

Support

For support on the Quantum Data 780E or other Teledyne LeCroy PSG products, please send an email to psgsupport@teledynelecroy.com

Please include your full contact information and a detailed description of the problem, including product model number, serial number, firmware version, software version, etc.