



Quantumdata 780C and 780E 21.08 Release

Updated: September 22, 2021

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1. Overview

This document provides information on Release 21.08 of the firmware for quantumdata 780C and 780E.

For further information on the quantumdata products, please see the Quick Start and Users guides available on our website at: <https://www.quantumdata.com>

2. Upgrade 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 corresponding 780 unit.
4. Extract the files from the download zip.
5. Format an SD card (2GB maximum) or SDHC card (32GB maximum) using the SD Card format tool such available at <https://www.sdcard.org/downloads>
6. Copy all files to the root directory of the SD card and insert the card into the 780.
7. Power on the 780.
8. Go to the 780E Help menu and perform Application Flash Update.
9. Without rebooting, perform FPGA Flash Update.
10. When complete, reboot the 780.
11. View the Help menu on the 780 and validate the firmware versions per the 21.08 column of Table 1. The version numbers for Release and FPGA (or TX and RX FPGAs) should all be correct.
12. Next, if the unit being upgraded is 780E, continue with Table 1 and compare the versions of HDMI 2.0 RX, HDBaseT TX, HDBaseT RX under the 21.08 column. For 780C, remove the SD card and use the unit as normal.
13. If the firmware versions from the previous step match, the upgrade is complete. Remove the SD card and use the unit as normal.
14. If the firmware versions from step 12 **do not** match, continue with the following procedure:
 - a. Power down the 780E, insert the SD card again, and power up.
 - b. Go to Help menu and perform Program Other Chips (Press View)
 - c. If the HDMI 2.0 RX firmware version does not match, then select Update HDMI 2.0 RX Flash and wait for completion.
 - d. If the HDBaseT TX firmware version does not match, then select Update HDBaseT Tx Flash and wait for completion.
 - e. If the HDBaseT RX firmware version does not match, then select Update HDBaseT Rx Flash and wait for completion.
 - f. Reboot the 780E and verify the software versions again per the instructions above.
 - g. Remove the SD card and use the unit as normal.

Software	780C FPGA	780E TX FPGA	780E RX FPGA	780E HDMI 2 RX	HDBaseT TX	HDBaseT RX
21.08.3151	16062103	19050101	18042401	1.99.17 D0	13140210	13140200

Table 1: Version Information

3. Release Notes

3.1. Resolved Issues

- AVI InfoFrame Q field now updates based on DVQM setting
- Fixed CEC vendor ID decode in ACA
- Fixed 128kHz LPCM on 780E HDMI TX
- Fixed DP TX link training issue when RX device DPCD advertised HBR3 support
- Fixes bitmap loading issue from UserPats.txt
- Audio InfoFrame fixed when transmitting compressed audio
- Headphone/Speaker audio DAC configuration improvements
- Improves decoding of EDID VIC codes for VICs > 128
- DP SSC downspread improvements at various DP link rates
- HDCP 2.2 references changed to either 2.x or "2.2 or greater"
- image/format name length limitation fixed
- Improved color value accuracy in some situations
- Tweaked DP transfer unit threshold to support additional format transmission

3.2. New Features

- 3G-SDI Level B metadata features added
- CalMan Dolby Vision support added
- Allows up to 99 user patterns to be accessible via command line
- 780E TX TMDS level adjustment command/query added (DVSO)
- HVSA command added
- Tweaks to 780D/780E default EDID
- STANAGA/B/C formats and ITU0925X added
- DIDR query added (allows for parsed EDID data to be queried via command line)
- PCDT command/query added (allows adjustment of threshold where pixel clock doubling occurs)
- SCOG command/query added (HDMI 2.x SCDC polling controls for 780E)
- New images added: BordersB, BordersW, CoreClrI, CoreClr2I, RawBox and RawBoxHV

3.3. Known Issues

None at this time.

4. Support

For support on the quantumdata 780 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, and any trace files pertaining to the issue.

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