



Quantumdata 804 and 804B 21.08 Release

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Table of Contents

Quantumdata 804 and 804B 21.08 Release.....	1
1. Overview	2
2. Upgrade Instructions	2
3. Release Notes.....	3
3.1. Resolved Issues.....	3
3.2. New Features	3
3.3. Known Issues	3
4. Support.....	3

1. Overview

This document provides information on Release 21.08 of the firmware for quantumdata 804 and 804B.

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 804 Series Tab.
3. Select and download the official release for the corresponding 804 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 804.
7. Power on the 804.
8. Go to the 804 Help menu and perform Application Flash Update.
9. Without rebooting, perform FPGA Flash Update.
10. When complete, reboot the 804.
11. View the Help menu and validate the firmware versions per the 21.08 column of Table 1. The version numbers for Release and FPGA should all be correct.
12. If the firmware versions from the previous step match, the upgrade is complete. Remove the SD card and use the unit as normal.

Software	804 FPGA	804B FPGA
21.08.3151	13101806	17061601

Table 1: Version Information

3. Release Notes

3.1. Resolved Issues

- AVI InfoFrame Q field now updates based on DVQM setting
- Fixed bitmap loading issue from UserPats.txt
- Audio InfoFrame and Channel Status fixed when transmitting compressed audio
- Improved decoding of EDID VIC codes for VICs > 128
- 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
- Transmits CTA VIC instead of HDMI_VIC for 4K 24/25/30Hz 3D
- Fixed some VESA DMT and CVT format sync polarities
- Fixed issue with 3D HDMI VSIFs
- Fixed YCbCr dynamic range on ISF and THX patterns
- Fixed YPbPr gray step patterns
- Disabled invalid "scroll" option in EMI H/Grill GUI options when Grill is selected
- Improved stability of Aux Combo Test pattern

3.2. New Features

- Optimizes bitmap loading and changes default boot behavior to revert to color bars instead of re-loading bitmap
- Allows up to 99 user patterns to be accessible via command line
- Adds some HDMI 2.1 EDID parsing and improved EDID parsing presentation
- Modified GUI layout to allow for additional data to be displayed on 4.3" LCDs
- HVSA command added
- New formats added: STANAGA/B/C, ITU0925X
- 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)
- New images added: BordersB, BordersW, CoreClrI, CoreClr2I, RawBox, RawBoxHV, Multibr3
- New images added (804B-only): RampR, RampG, RampB, RampC, RampM, RampY
- Detects CTA VICs in primary DTD and sets corresponding CTA VIC in AVI InfoFrame when in use
- SD card file loading improvements

3.3. Known Issues

None at this time.

4. Support

For support on the quantumdata 804 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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