

## 780C Video Generator/Analyzer Software Release Notes

### SW Version

17032847

### FPGA Version

16062103

### Change Log:

- More reliable EDID reading
  - Adds more video timings (21:9 issues resolved, added 48Hz video timings from CTA-861-G), and a number of newer DMT formats on the PC side
  - Adds TMAX:NBPC? to read incoming bits per component
  - Adds HDR10 support to default EDIDs
  - ACA speed improvements (should now be able to keep up with more devices)
  - Fixes some issues with command names being accepted, and format names being rejected erroneously
  - Adds 780C Remote HDBaseT test feature
  - Improved USB communication in COM mode
  - Adds raw EDID print out on the display (up to the first 2 blocks)
  - Adds MoireX and MoireY patterns
  - Changed USB Vendor ID to Teledyne LeCroy PSG
  - Command-line support for HDBaseT long reach mode (need to add to GUI later)
  - Fixes Focus image in 1080p
  - Fixes Zone Plate issue when the image size exceeds the format's size
  - Adds DIDQ? query
  - Adds DPRX:DPCD (and query), DPTX:LPQM
  - Adds binary EDID file support
  - Adds 64kHz and 128kHz LPCM audio support for all video interfaces
  - Adds HLG EDID/InfoFrame support
  - Adds XAVI:ACE and XAVI:VER for DCI-P3 testing use
  - Adds FMTL VICxxx (where xxx = 001 through 116) to set format by VIC code -- not all VICs are supported by 780/804.
  - Fixes pixel rep format timing measurement while in View Detailed mode
  - IMGL/IMGU queries now use the last typed name if entered by command, or the generated value if image is selected by GUI
  - Splash screen text changed to match new bezel text
  - Windows 10 should no longer need a driver for the USB COM port.
  - Adds XAVI:VER & XAVI:ACE to support DCI-P3 InfoFrame settings from CTA-861-G
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## Upgrade Procedure

### SD Card Upgrade Procedure (Recommended)

1. Download the file from downloads page and unzip it.
2. Copy all files to a SD card's root directory and insert the card to device.
3. Power on the unit.
4. Go to the Help menu and perform Application Flash Update. When complete, reboot the device.
5. Go to the Help menu and perform FPGA Flash Update. When complete, reboot the device.
6. Go to the Help menu and perform HDBaseT Tx Flash Update. When it tells you to reboot, go ahead and perform HDBaseT Rx Flash Update. When it tells you to reboot, power cycle.

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### Supplemental Files (70 megabytes)

This archive contains all Compressed Audio Samples, Sine Wave Clips, and Sample BMP Files.

1. [Download Supplemental Files archive from here](#) (updated on August 23, 2013).
2. Unzip the files into a new folder in your PC.
3. Turn on 780C and press Preferences.
4. If COM is selected next to USB Mode, select Disk and power cycle 780C.
5. Connect 780C's USB port to your PC.
6. 780C should appear as a removable disk.
7. Copy unzipped supplemental files to 780C.

### Alternatively, you can download the file sets separately: Compressed Audio Test Samples (57 megabytes)

1. [Download compressed audio test samples from here](#) (updated on August 23, 2013).
2. Turn on 780C and press Preferences.
3. If COM is selected next to USB Mode, select Disk and power cycle 780C.
4. Connect 780C's USB port to your PC.
5. 780C should appear as a removable disk.
6. Copy downloaded compressed audio test sample files to 780C.

### Sine Wave Audio Clips (760 kilobytes)

7. [Download audio clips from here](#) (updated on August 23, 2013).
8. Turn on 780C and press Preferences.

9. If COM is selected next to USB Mode, select Disk and power cycle 780C.
10. Connect 780C's USB port to your PC.
11. 780C should appear as a removable disk.
12. Copy downloaded audio files to 780C.

### **Sample BMP Files (324 kilobytes)**

13. [Download sample BMP files from here](#) (updated on August 23, 2013).
14. Turn on 780C and press Preferences.
15. If COM is selected next to USB Mode, select Disk and power cycle 780C.
16. Connect 780C's USB port to your PC.
17. 780C should appear as a removable disk.
18. Copy downloaded sample files to 780C.
19. The UserPats.txt file is used to add the bitmaps to 780C Video Pattern menu. You can add your own bitmaps by copying them to 780C and updating this text file.

### **USB COM Port .inf File**

1. Determine whether your Windows is 32-bit or 64-bit.
  - a. For 32-bit Windows: [Download .inf file from here.](#)
  - b. For 64-bit Windows: [Download .inf file from here.](#)
2. Turn on 780C and press Preferences.
3. If Disk is selected next to USB Mode, select COM and power cycle 780C.
4. Connect 780C's USB port to your PC.
5. Follow the procedure below to install the USB COM Port driver.

### **Windows 8**

1. Go to the Advanced Startup options. You can easily do this by holding down the Shift key and clicking on Restart.
2. Select Troubleshoot.
3. Select Advanced options.
4. Select Startup Settings.
5. Click on Restart.
6. Press F7 for "Disable driver signature enforcement."
7. Turn on the 780C.
8. Go to the Preferences menu and make sure USB Mode is set to COM. If not, select COM and power cycle the 780C.
9. Connect 780C's USB port to your PC.
10. Go to the Device Manager.
11. Under Other devices, right-click on USB COM and select Update Driver Software.

12. Select Browse my computer for driver software.
13. Click on Browse button and browse to the location of the downloaded 780C USB COM driver file and click on OK.
14. Click on Next.
15. When you see the Windows Security dialog box show up, click on "Install this driver software anyway."

## **Windows 7**

16. The first time you connect 780C to your PC in COM mode, the Installing device driver software message will show up. Click on this message to see the status.
17. You will see a message that says "Searching Windows Update" for the USB COM port driver. After a while, you will see "No driver found" message.
18. Click on Close.
19. Open Device Manager by launching Control Panel and selecting System and Security -> System -> Device Manager.
20. Under Other devices, you might see USB COM.
21. Right-click on USB COM and select Update Driver Software.
22. Click on Browse my computer for driver software.
23. Click on Browse, select the folder that contains QD780.inf file, and click on OK.
24. Click on Next.
25. If a dialog box shows up asking whether or not to continue installing the driver, click on "Install this driver software anyway."

## **Windows Vista**

26. The first time you connect 780C to your PC in COM mode, the Found New Hardware Wizard will show up. Select "Locate and install driver software (recommended)."
27. When asked if you want to allow Windows to search online for driver software for your USBCOM Device, click on "Don't search online."
28. When asked to insert the disc that came with your USBCOM Device, click on "I don't have the disc. Show me other options."
29. Click on "Browse my computer for driver software (advanced)."
30. Browse and select the directory where QD780.inf is located.
31. Click on Next.
32. If a dialog box shows up asking whether or not to continue installing the driver, click on "Install this driver software anyway."
33. If you get a dialog box that says the file 'usbser.sys' is needed, then you will need to either insert the Windows Vista installation disc or search your PC for usbser.sys file.

## **Windows XP**

34. The first time you connect 780C to your PC in COM mode, the Found New Hardware Wizard will show up. Select "Install from a list of specific location (Advanced)."
35. Click on Next.
36. Click on Browse and select the directory where QD780.inf is located.
37. Click on Next.
38. If a dialog box shows up asking whether or not to continue installing the driver, click on Continue Anyway.
39. If you get a dialog box that says the file 'usbser.sys' is needed, then you will need to either insert the Windows XP installation disc or search your PC for usbser.sys file.

## **Windows 2000**

40. The first time you connect 780C to your PC in COM mode, the Found New Hardware Wizard will show up. Click on Next.
41. Select "Display a list of known drivers for this device so that I can choose a specific driver."
42. Click on Next.
43. Select Ports (COM & LPT) and click on Next.
44. Click on Have Disk.
45. Browse to the location of QD780.inf file and select it.
46. Click on OK.
47. Click on Next.
48. Click on Next.
49. If a dialog box shows up asking whether or not to continue the installation, click on Yes.