

Quantum Data 980 Upgrade to GUI 1.0.74, Firmware 24.0

This update to the 980 includes a new version of the 980 External Manager (the graphical user interface for Windows), 980 Embedded Manager for Touchscreen LCD, and a new version of the firmware/gateway load for the instrument itself. *All updates should be performed at the same time, as the 980 Manager GUIs rely on some new features in the instrument firmware/gateway.* Here is the installation procedure:

1. Download the 980 External Manager and Firmware/Gateway from the Quantum Data Downloads page: <http://www.quantumdata.com/downloads/index.asp> to your PC.
2. First install the new External Manager. Start the installation by double-clicking on your downloaded **980-mgr-1.0.74.msi** file.
3. Proceed through the Setup Wizard as prompted. We recommend installation in the default folder.
4. After installation completes, run the new 980 External Manager. It should be available in the Start Menu under All Programs → Quantum Data, and also from an icon on your Desktop.
5. Verify the version number in the title bar: Version 1.0.74.
6. Connect the 980 instrument to your network and turn it on. After booting, you should see the instrument's IP address in its front-panel LCD.
7. Define the instrument in 980 External Manager. In the *Capture Control* tab, click the + to the right of *Instrument Selection* at the top.
8. If the instrument is not automatically discovered, define the 980 by entering your choice of a name in the *Name* field, and the instrument's IP address in the *IP Address* field. Click *Add*.
9. If at this point you see an error message, it is because the instrument itself still has old firmware which is not optimized for the new 980 External Manager, so you should perform sub-step 'a' below. Otherwise proceed to step 10.
 - a. Under *Capture Control* → *Instrument Selection*, click on the pull-down in the entry box under *Select the instrument that will execute the capture*, and select the name of the instrument that you just defined. The IP address may be displayed incorrectly because of the old instrument firmware.
10. Click on the *Navigator* tab and then *Instruments*. You should see the instrument name that you just defined. If it is not selected, right-click on it and select *Connect*. If the IP address is wrong, this is also because of the old firmware, so right-click and select *Disconnect*, then right-click and again select *Connect*.
11. Now under the *Navigator* tab you should see the name of your 980 instrument followed by [connected]. Right-click on this name and select *Upgrade Firmware/Gateway*. Browse to the location of the downloaded **980_241.deb** file, select this file, and click *Open*. If you see a warning message, just click on Yes.
12. You should see the *Firmware Update Progress* box that shows status of the upgrade process. Then you will see an information box telling you that the 980 will be powered down, and instructing you to then turn it back on. When you see from the 980 front panel display that it has fully booted, click *OK* in this box.
13. Right-click on the instrument in the *Navigator* tab and select *Connect*. Right-click on the instrument again and select *Information*. Verify the following version information: (If any of these values are not populated, disconnect and reconnect.)
 - a. Firmware Version: 24.0 Build Number: 1552 (qd 02:01:2010 11:09:40 CST)
 - b. Gateway Version: 69 Build: 01:29:2010: Rev: 500c
14. Now your 980 and External Manager software are upgraded and ready for use.

15. If your 980 has the touchscreen LCD, then you need to check the Embedded Manager version number to determine if you need to upgrade it or not. On the touchscreen LCD, touch the *Navigator* tab and then *Captures* tab. Touch one of the captures to highlight it and then touch Information (if you don't have any captures, perform a short capture). Scroll down to [Host] section which will show the UI Name.
16. If the UI Name shows version 1.0.74, you don't need to upgrade the Embedded Manager. If this shows an older version, download the Embedded Manager 1.0.74 package from <http://www.quantumdata.com/downloads/index.asp> to your PC. Then, launch the 980 External Manager 1.0.74 that you installed on your PC. Connect to the 980 instrument. Right-click on the instrument in the *Navigator* tab and select *Upgrade GUI Application*. Browse to the location of the downloaded **980mgr_1_0_74.tar.gz** file, select this file, and click *Open*. You should see the *Software Upgrade* progress box that shows status of the upgrade process. If you see an error message, click on *OK*, close the External Manager, relaunch it, and try the Embedded Manager upgrade again.
17. Once the upgrade is successful, you will see an information box telling you that the newly installed application should be running on the 980. Click on *OK*.
18. Now your 980's Embedded Manager is ready for use.