

Installation instructions

# Installation Instructions

Qubit™ Data Logger 1.1.7

Qubit™ Firmware version 1.27



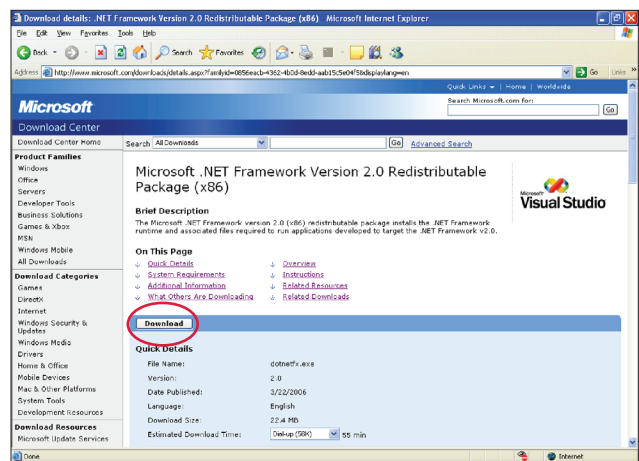
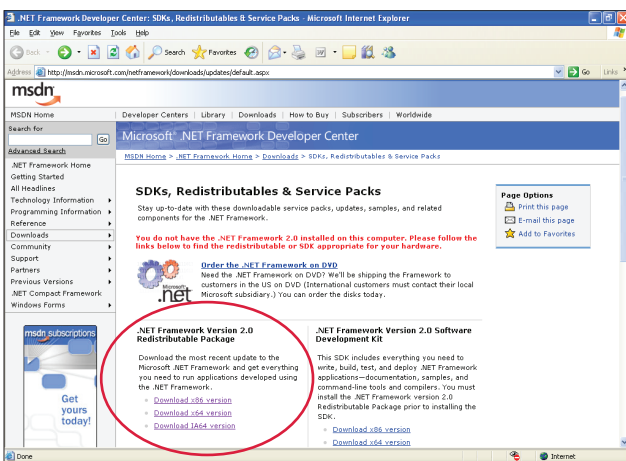
## Updating your Qubit® fluorometer can be easily accomplished in four easy steps:

- I. Install the required Microsoft Windows .NET files to support the Qubit™ software (if not present on your computer).
- II. Install the latest version of the Qubit™ Data Logger (1.1.7) onto your computer.
- III. Establish the connection between your computer and the Qubit® fluorometer.
- IV. Transfer the updated Qubit™ Firmware (version 1.27) onto your Qubit® fluorometer.

It may be helpful to print these instructions out for reference as you go through the installations steps.

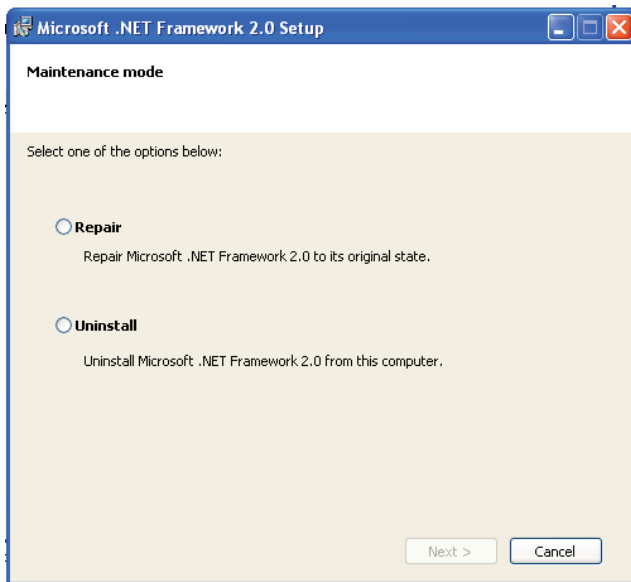
## I. Installing Microsoft Windows .NET files.

1. Point your browser to: <http://msdn2.microsoft.com/en-us/netframework/aa731542.aspx>
2. Click on "Download x86" version". The following page will be displayed.



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3. Click on Download button. The file will begin downloading and then extracting the files. If you already have the most recent .NET version on your computer, you will see this window Press "Cancel" to exit this window and cancel setup. You're ready to move onto Step II. Otherwise..

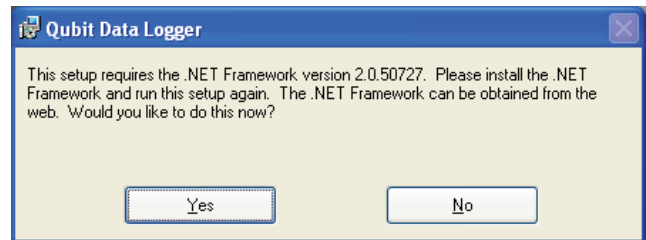


4. Follow the instructions of Microsoft .NET Framework 2.0 Setup and .NET Framework will be installed on your computer.

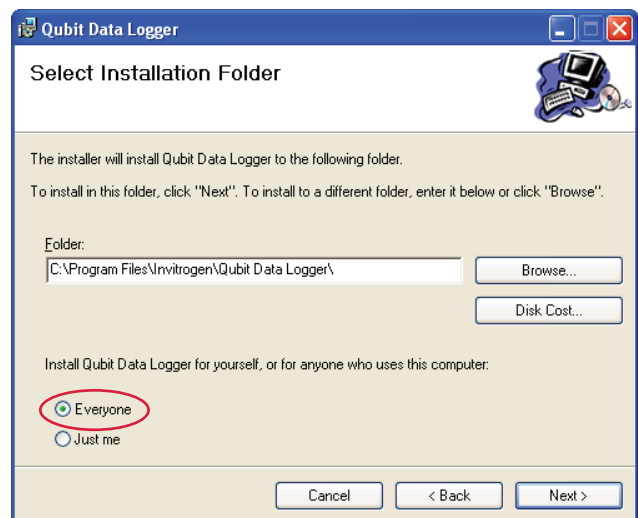
## II. Install Qubit™ Data Logger 1.1.7 onto your computer.

1. At the Qubit™ website, double click on the file "Qubit™ Data Logger 1.1.7" to install the latest version of the Qubit™ Data Logger on your computer.

2. If you see the following screen, you need to install .NET Framework on your computer to install the application (Qubit™ Data Logger). Go back to section I: Installing Microsoft Windows .NET files. Otherwise continue to Step 3 of this section.



3. Follow the instructions to download the application. A shortcut icon named "Qubit™ Data Logger" will be automatically created on Desktop. Also the application will be added to the Start/All Programs/Invitrogen menu. Note: if multiple users will be using the program on the computer using different login profiles, select the "Everyone" option as seen in the example below.

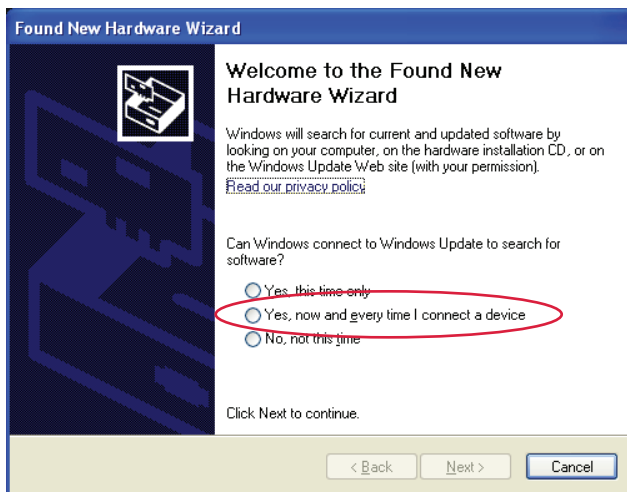


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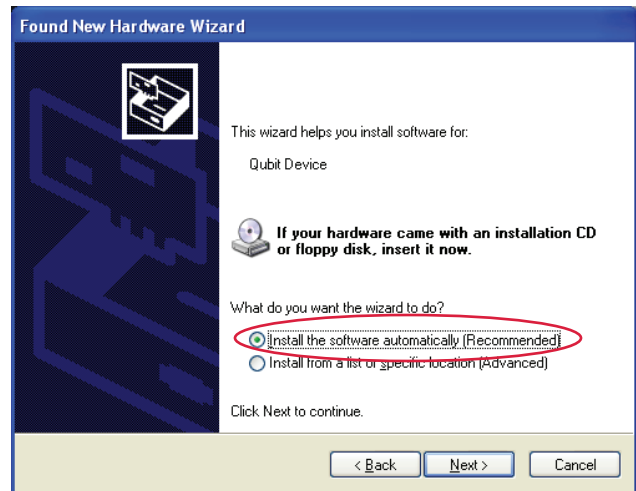
### III. Establish the connection between your computer and the Qubit® fluorometer.

Note: The tasks in this section are necessary only the first time that a Qubit® fluorometer is connected to your computer.

1. Turn the Qubit® fluorometer on.
2. Connect the USB cable between the Qubit® fluorometer and Computer. Use an “A to 5-pin mini-B” cable, available from Invitrogen as product # Q32858 or from many other stores that carry computer equipment. When the Qubit® Fluorometer is connected to the computer first time, a “Found New Hardware Wizard” is open. Select “Yes, now and every time I connect a device” option and click the “Next” button.



3. New windows will pop up. Select “Install the software automatically” option and click the “Next” button.



4. During installation, you may get following message window. Click on “Continue Anyway” button.



5. You will get a “hardware installation finished message”. That means you are ready to work now. Keep in mind that although it is a first time process but if you will connect the Qubit® Fluorometer to any other USB port first time, you will have to go through hardware installation process again.

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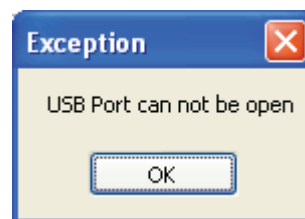
**Note:** This installation process is USB port specific. If you connect the Qubit® fluorometer to a different USB port on the same computer, you will have to go through the hardware installation process again.

### IV. Transfer Qubit™ Firmware 1.27 onto your Qubit® fluorometer.

1. At the Qubit™ web page, save the firmware file Qubit\_1\_27.bin to the desktop of your computer.
2. Unplug the power supply AND the USB cord from the Qubit™ fluorometer.
3. While holding down both the "HOME" and "GO" buttons on the Qubit™ simultaneously, reinsert the power cord.
4. Let go of the "HOME" and "GO" buttons. The screen should be black and no words should appear.
5. Connect the Qubit™ fluorometer to the computer using the USB cable.
6. Double click on the Qubit™ Data Logger application icons on your desktop or by navigating to the Start/All Programs/Invitrogen menu.
7. Under the 'Utilities' menu, of the Qubit™ Data Logger, select 'Update Firmware'.
8. Browse to the Qubit\_1\_27.bin firmware file that you saved on your computer in instruction IV.1. Choose the firmware file and wait for the firmware to transfer to the Qubit™ fluorometer.
9. Select 'OK' on the Confirm 'firmware update window'.

**Note:** It is very important that the Qubit® Fluorometer must not be disconnected from the computer while the updating process is in progress. Permanent damage may result.

10. When the uploading process is complete simply unplug the power cord from the back of the Qubit® fluorometer, and plug it back in as normal. Your Qubit® fluorometer is ready to be put back to work!
11. If you get the following error message on pressing "Start" button of application, the possible problems are:



- (i) There is no connection between the Qubit® fluorometer and computer.
- (ii) The Qubit® Fluorometer is powered off.
- (iii) You had not followed the instructions of hardware installation mentioned above.

**Solution:** Unplug the USB cable, Plug it again and follow the hardware installation message if you had not followed them earlier.

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