

Windows Installation Instructions

1. Setup QuarkNet hardware and connect DAQ board to computer (see Setup section). Even if Windows says that it cannot find the correct driver for this hardware, disregard and continue.
2. Download the Windows version of the zip file from the Purdue QuarkNet website.
(<http://www.physics.purdue.edu/~jones105/quarknet/index.html>)
3. Unzip folder to desired directory (Desktop is recommended, as program will be run through this folder).
4. Run **USB_to_Serial_Driver_Win.exe** from the **Install** folder and follow installation instructions. This program will first extract the installer and then go through the installation. Note: This may require administrative privileges.
5. Run **ports.bat** that is in the same folder. This will open a command prompt window that will list your active communication ports.
6. Look for **/Device/Silabser0** and note which port this is assigned to.
7. Close Command Prompt.
8. Run **CosmicRayDetector**. The interface and splash screen should appear:
9. Close the splash screen by clicking the X in the corner.
10. Click in the **Port** box within the Control Panel tab and change to the port you found in Step 7.
11. Press **Enter**. You should begin to see output in the data window, and if so, your setup is complete! **Note:** Once install is complete and the interface is up and running, you may delete the Install folder.

Troubleshooting

Problem 1: The interface won't start!

Check Java

Sometimes when Java updates itself, it does a bad time of disabling older versions that may still reside on your computer. This is a problem for the CRD software, so this section will explain how to check that only one installation is running (**Note:** this is written for the 32-bit version of Java, although 64-bit should be very similar*)

1. Go to the **Control Panel** (Start->Control Panel). Change the view to list all Control Panel items instead of the groups. (In Vista, this is the list box in the top right corner. In 7, this is done in the toolbar).
2. Open the Java Control Panel - **Java (32-bit)**.
3. Change to the **Java Runtime Environment Settings** tab and click **View**.
4. This lists all the versions of Java that are installed on your computer. **Uncheck** the boxes that are not the newest version, leaving only the newest version enabled. (The computer software was written in Java version 6. If you do not have this version or newer, consider updating your Java at <http://www.java.com/en/download/index.jsp>)
5. Change to the **System** tab and do the same as in step 4.
6. Click **Ok** for this window, **Ok** for the Java Control Panel, and **Exit** the Control Panel.
7. **Restart** the computer.
8. If you are running a 64-bit version of Java, then move on to the second step of troubleshooting first, then if it still does not work, try these steps.

Problem 2: The interface starts, but won't initialize the serial port, even though I have the right COM port.

64-bit Java

If you are running a 64-bit version of Java, then a different version of the RXTX dll is required. To fix this, there is another **rxtxSerial.dll** included in the Install directory. Use this one to replace the version that is in the CRD main folder.