

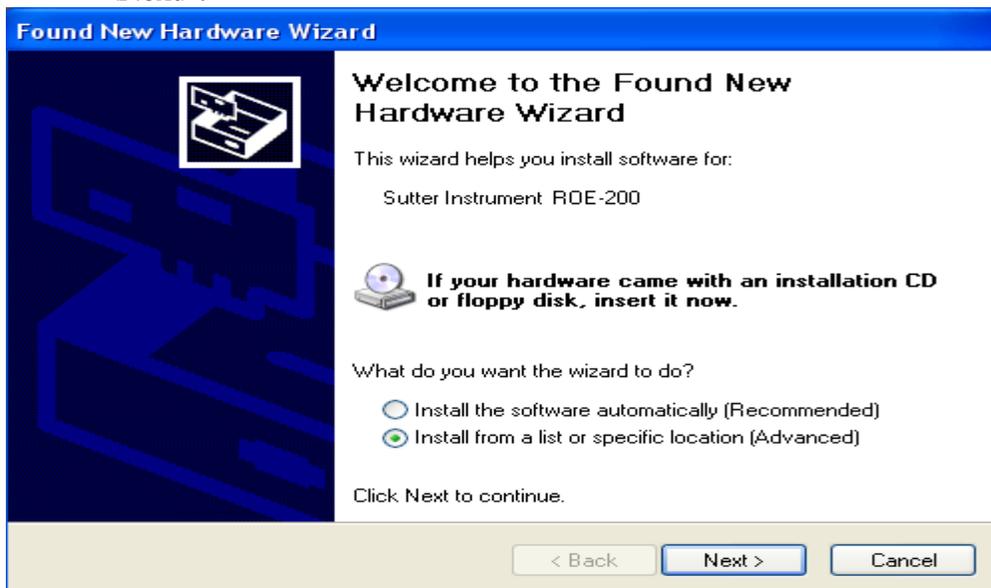
1. How to install CDM driver on PC for Manipulator

This installation guide is based on Window XP. Different systems may require different actions on some steps.

After the CDM driver files are installed on the PC and a new manipulator controller is added on, the device will be installed automatically. By default, the VCP driver (Virtual COM Port) will be loaded, and you can follow the next chapter “How to configure D2XX driver” to load D2XX driver (USB). Please note:

You have to configure the device driver to D2XX to make the USBTester demo program work.

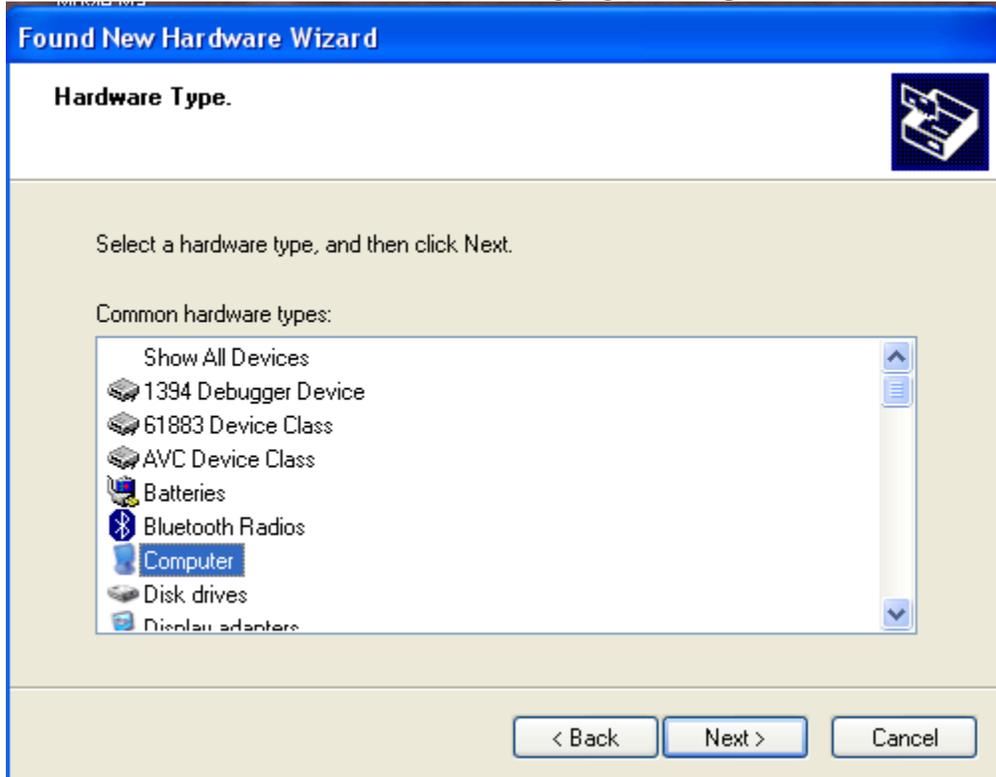
- 1) Connect the controller with the PC through the USB port and power on the device. If no CDM driver has been installed on the computer, the “Found New Hardware Wizard” will appear and you should then select “Advanced” and click <Next>.



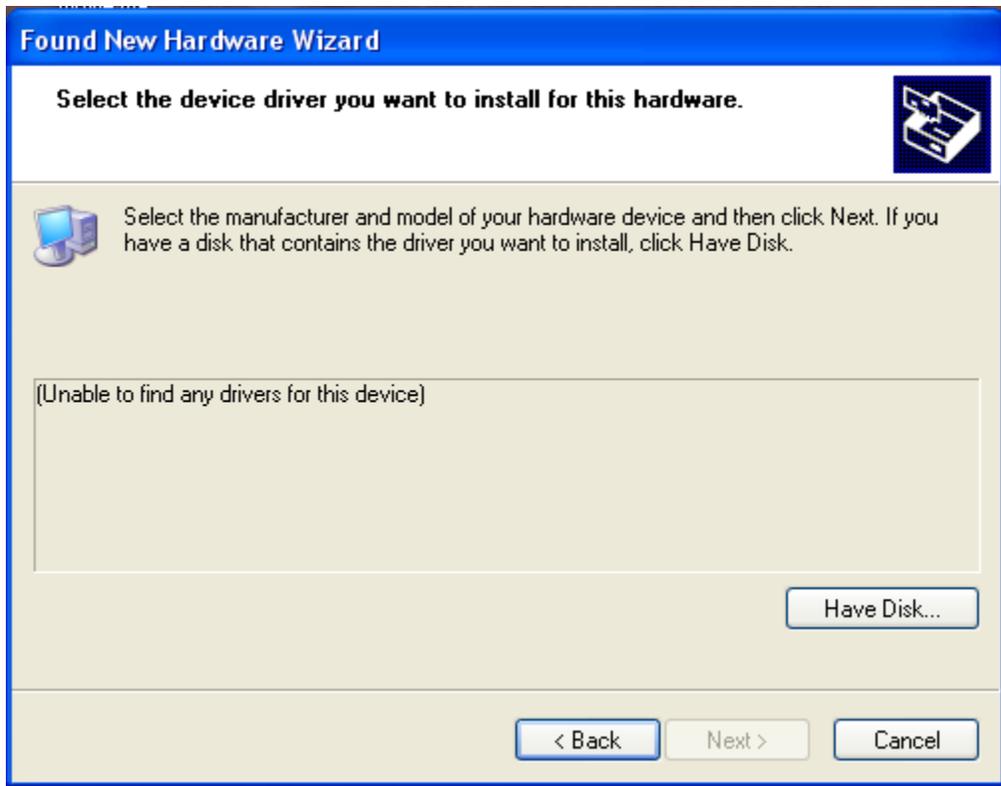
- 2) Select “Don’t Search. I will choose the driver to install.” and click next.



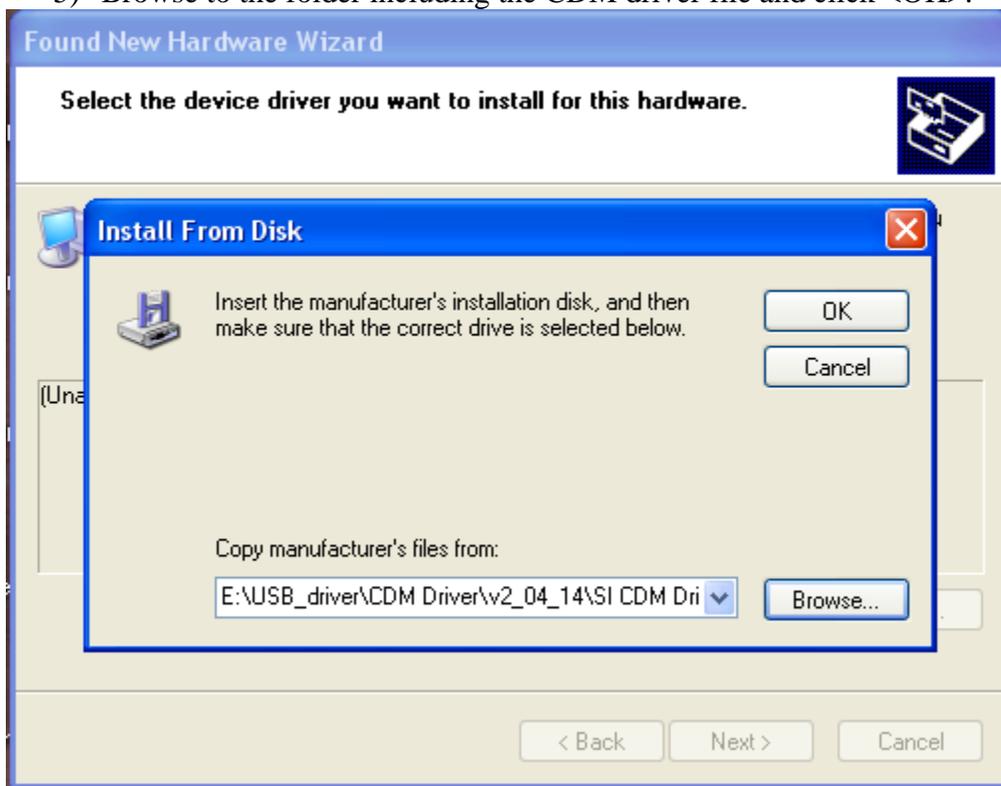
3) Choose "Show All Devices" and highlight "Computer" then click next.



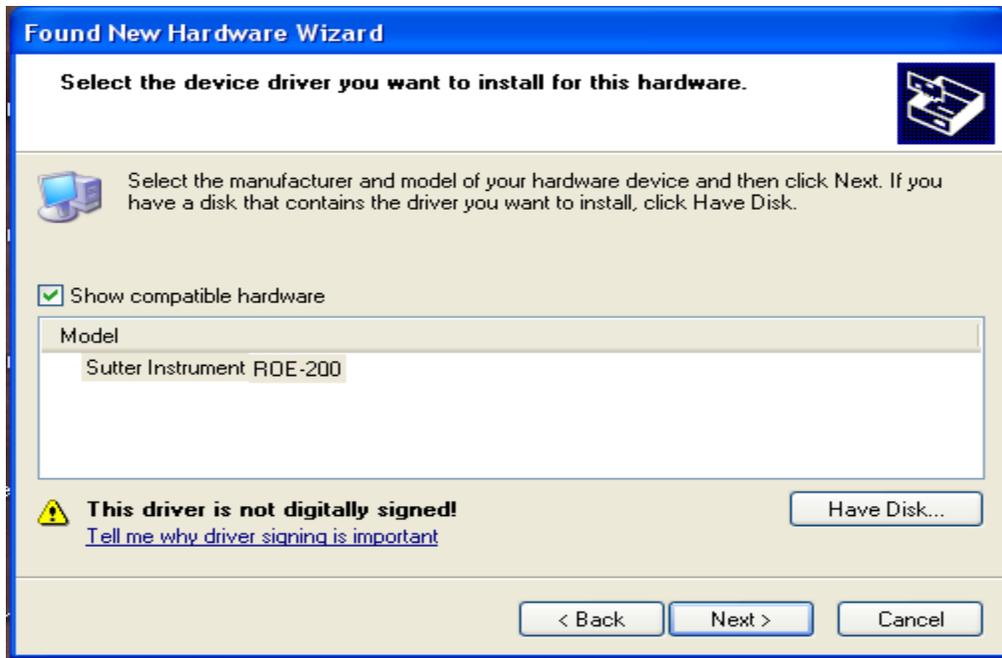
4) Click <Have Disk>.



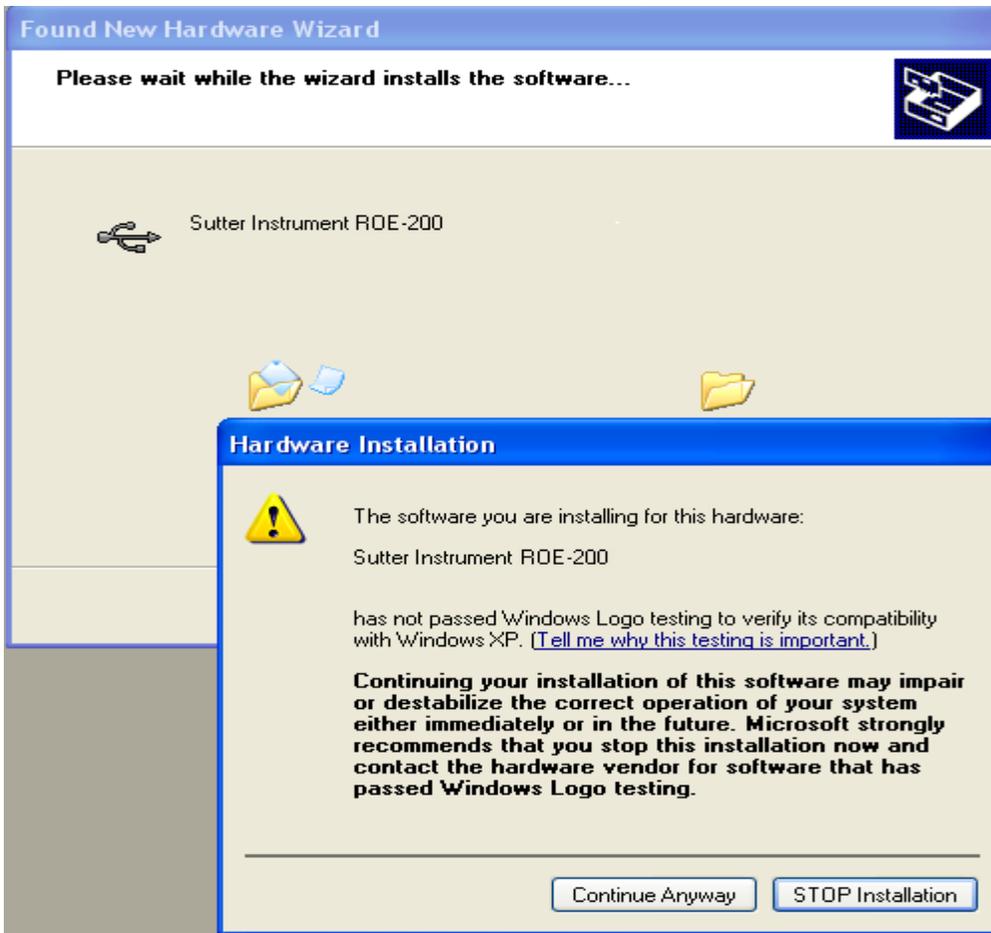
5) Browse to the folder including the CDM driver file and click <OK>.



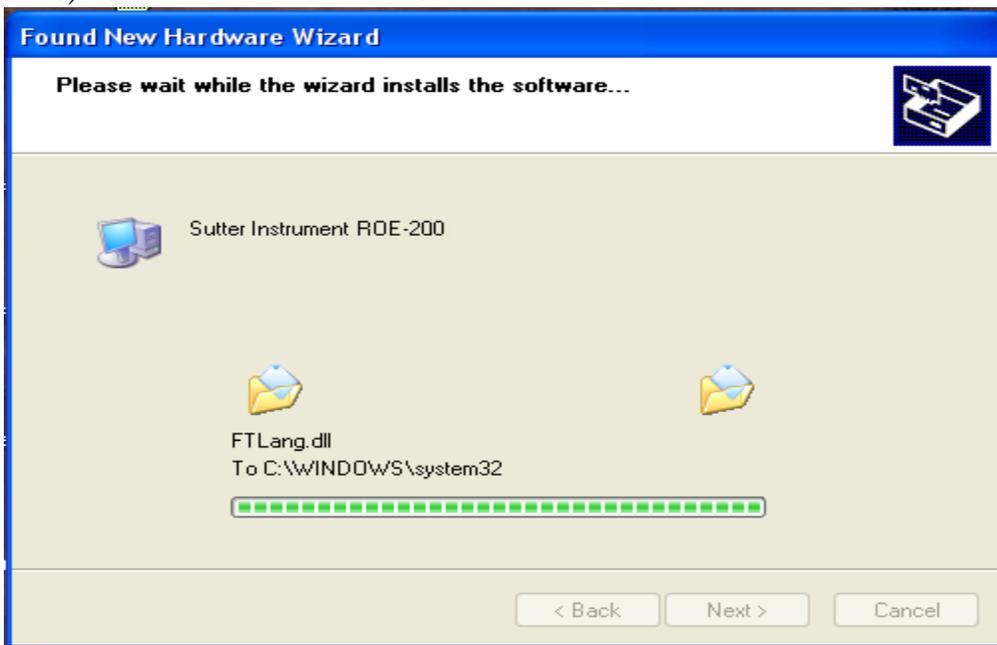
6) Click <Next>.

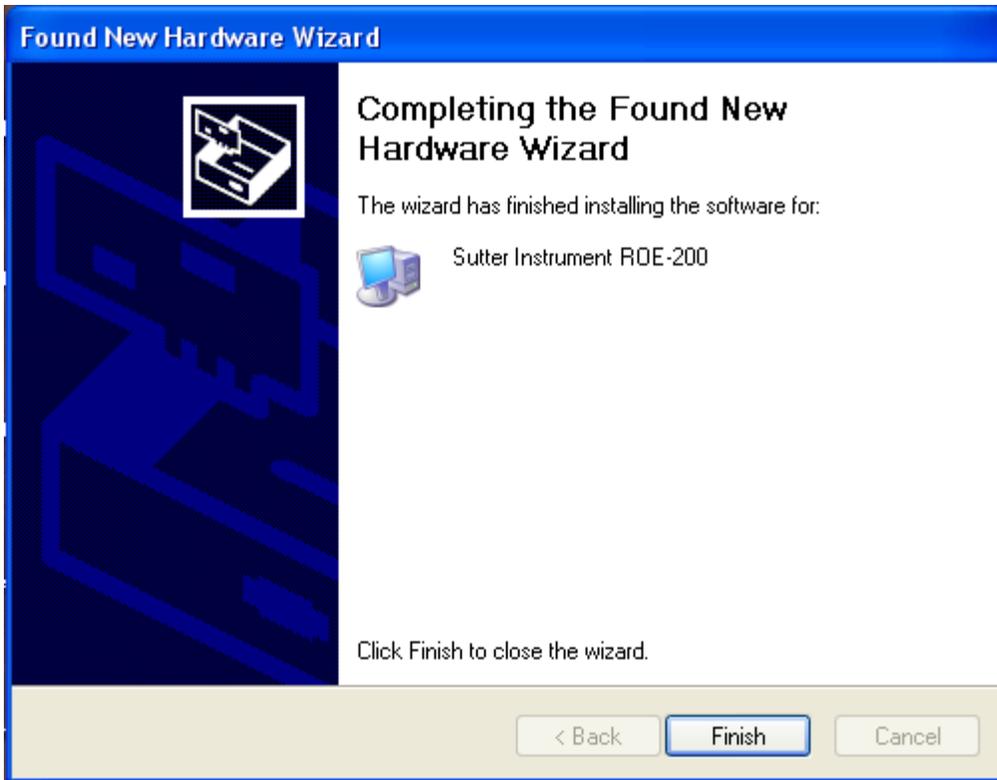


7) Click <Continue Anyway>.



8) Once the bus has been installed click <Finish>.

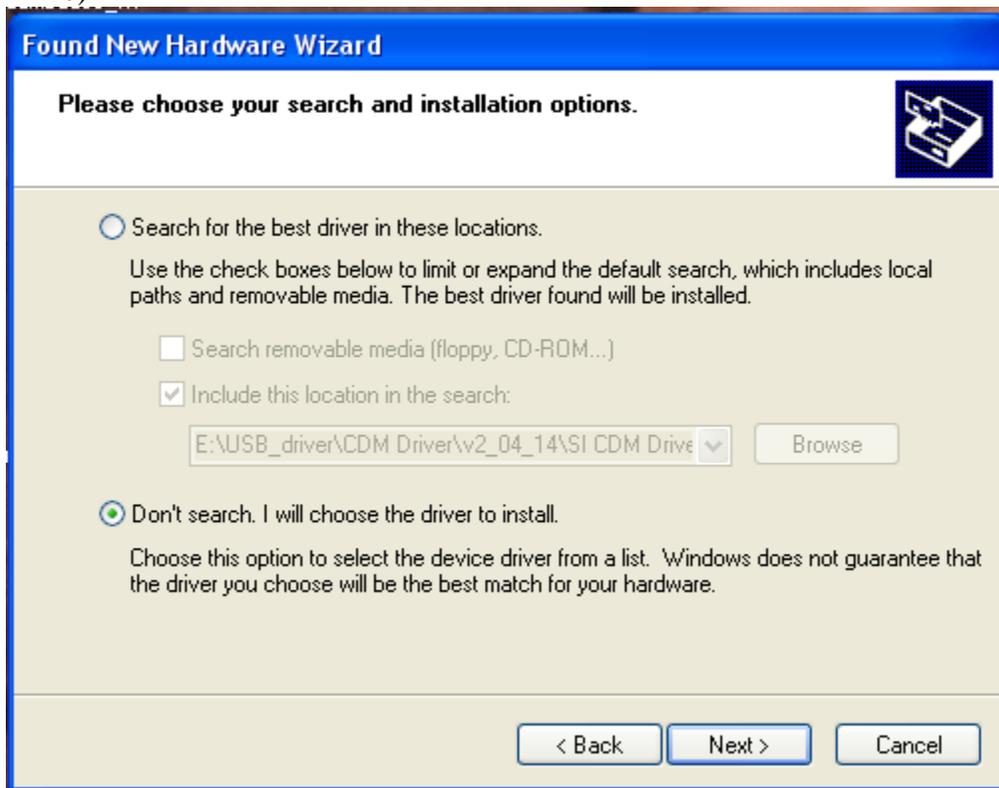




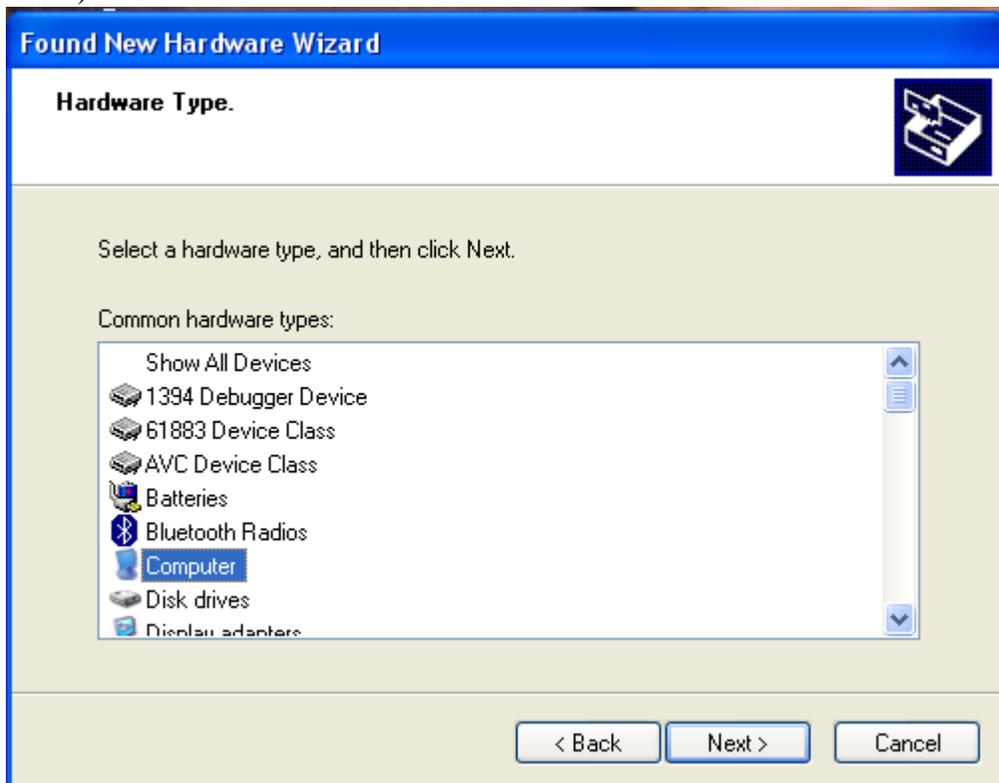
- 9) Found New Hardware Wizard pop up for installing the USB Serial Port. Refer to the description of step 1) to 8) and go through 9) to 16) to install the port.



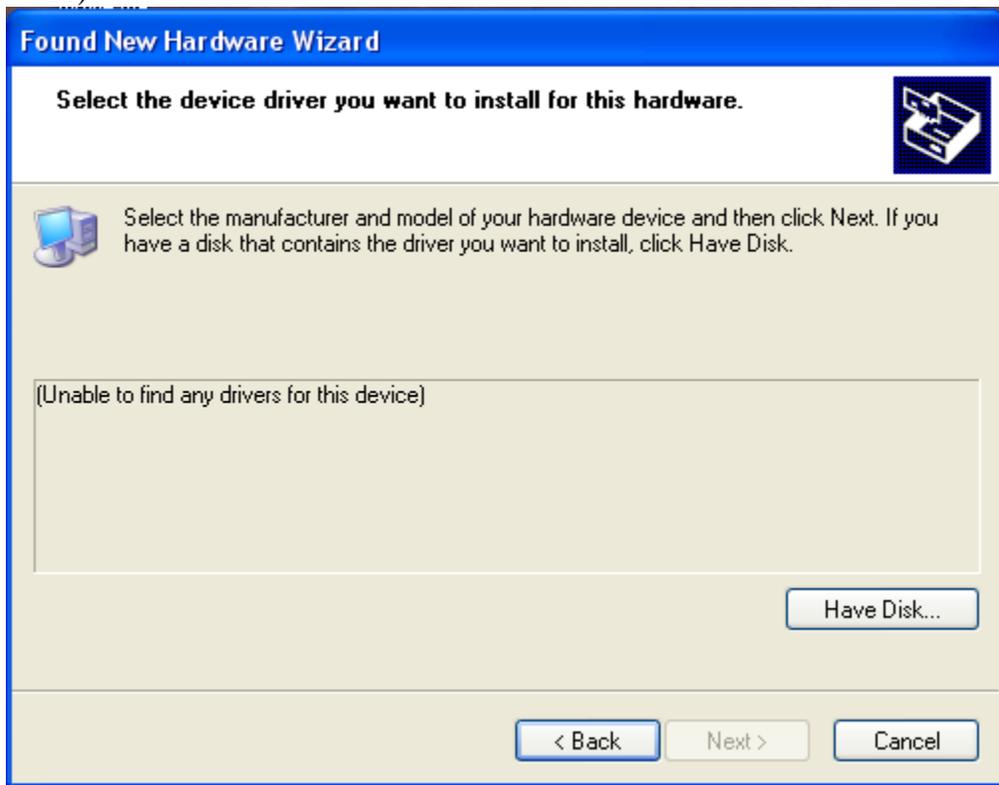
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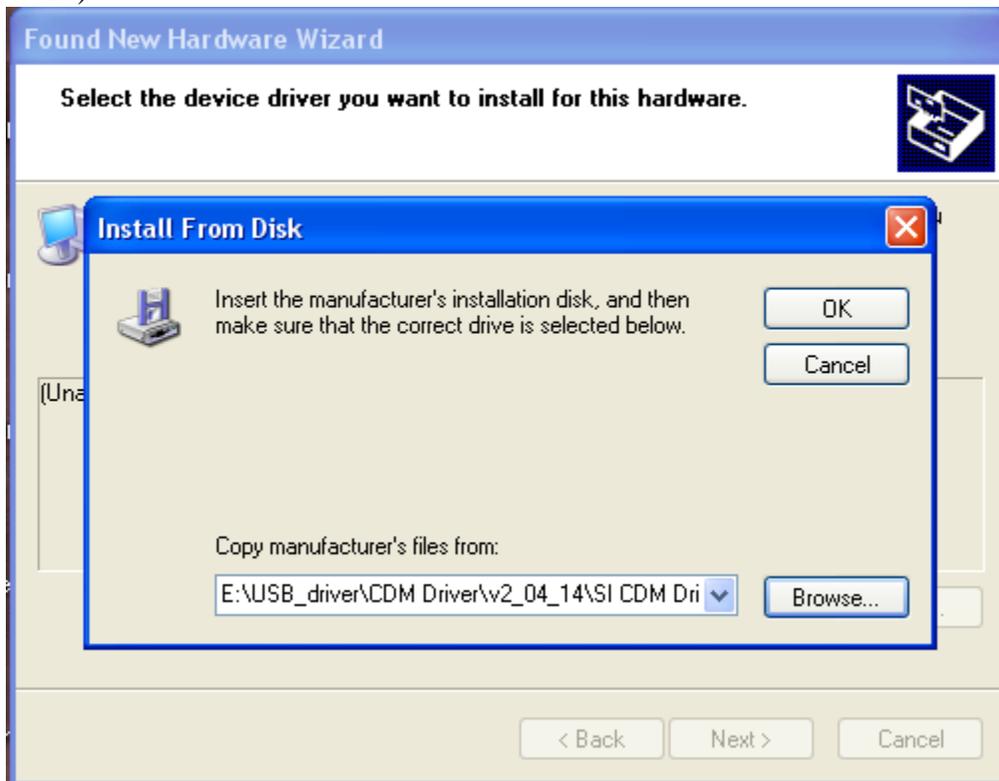
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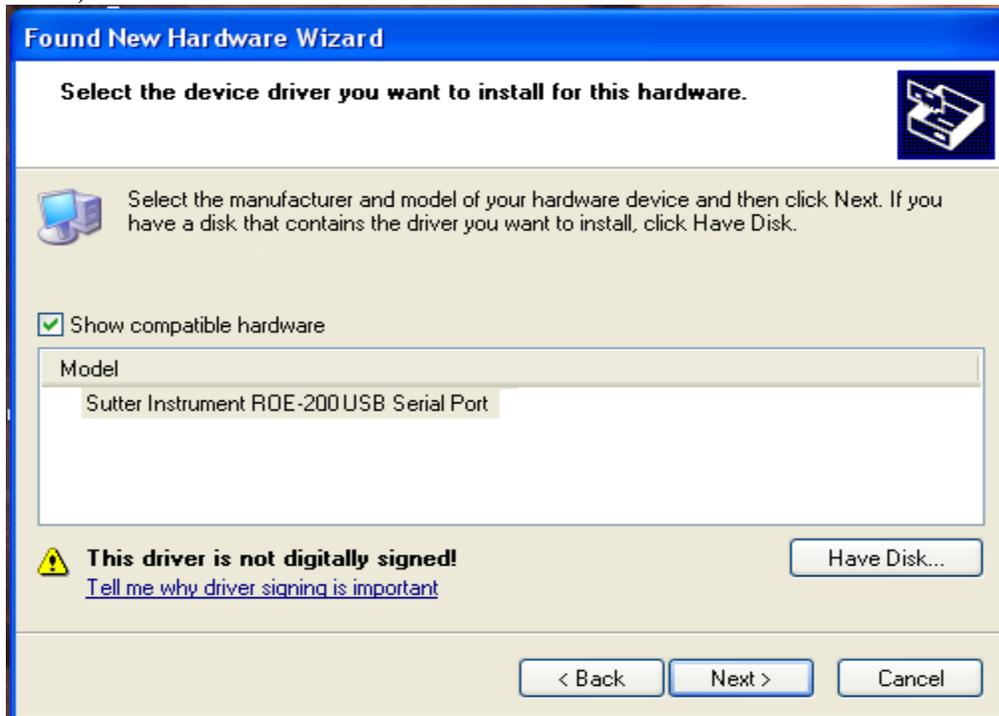
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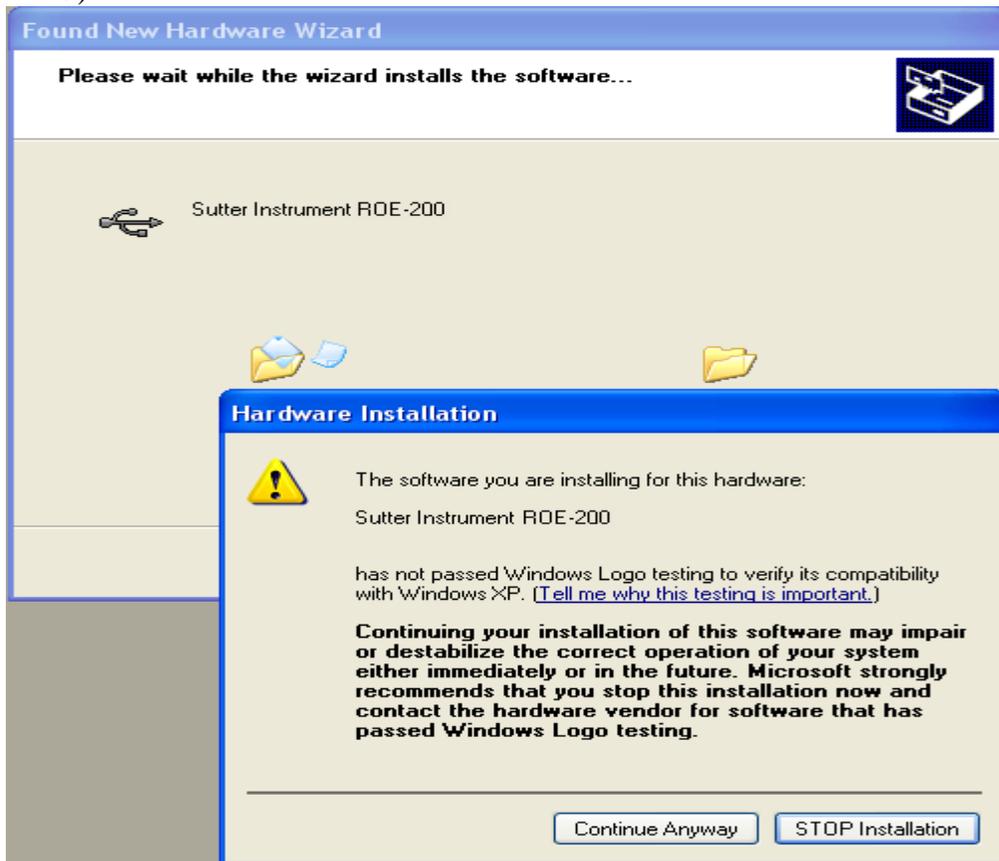
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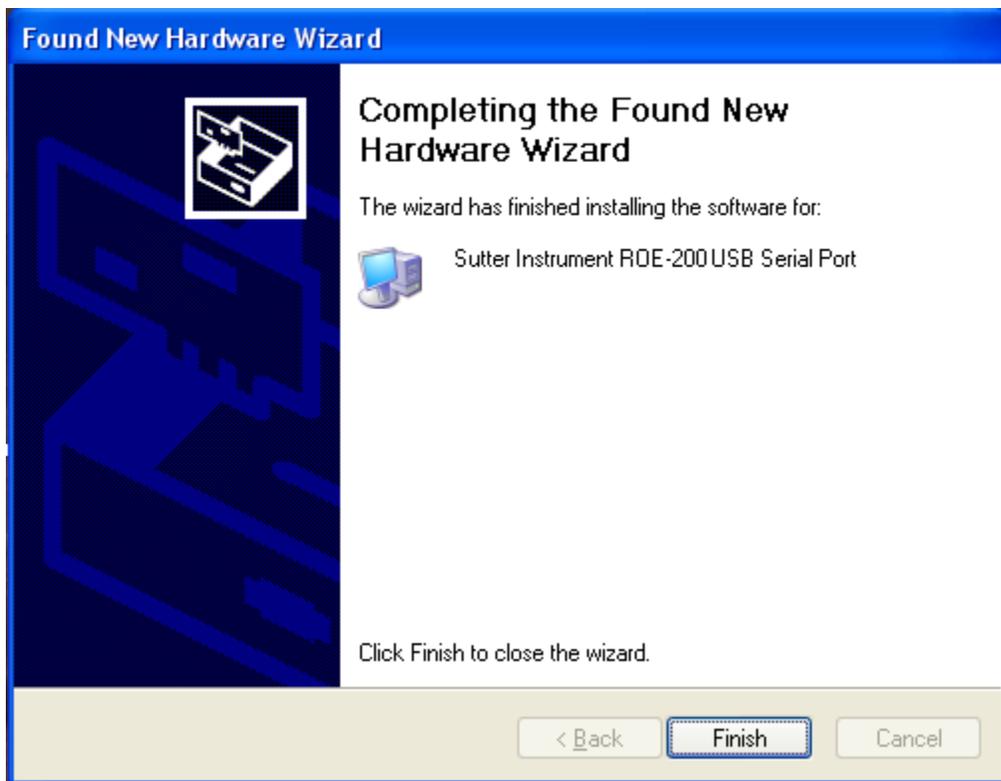
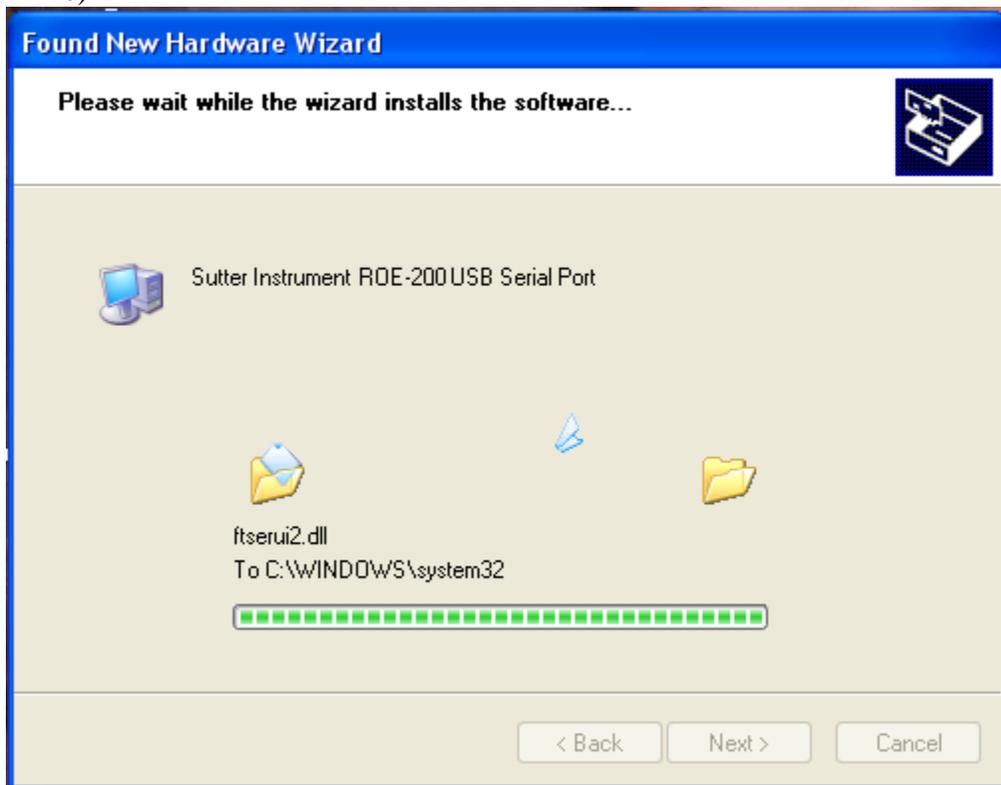
14)



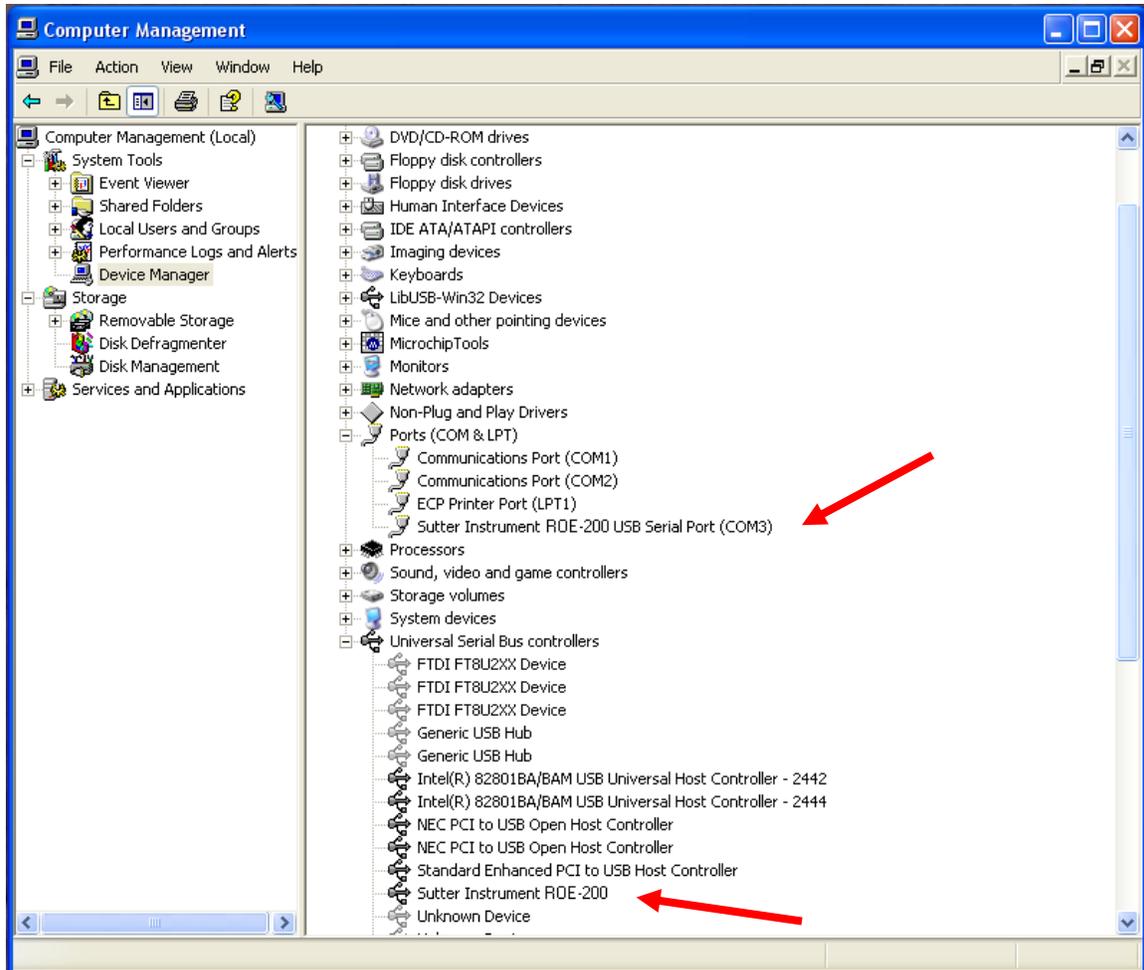
15)



16)

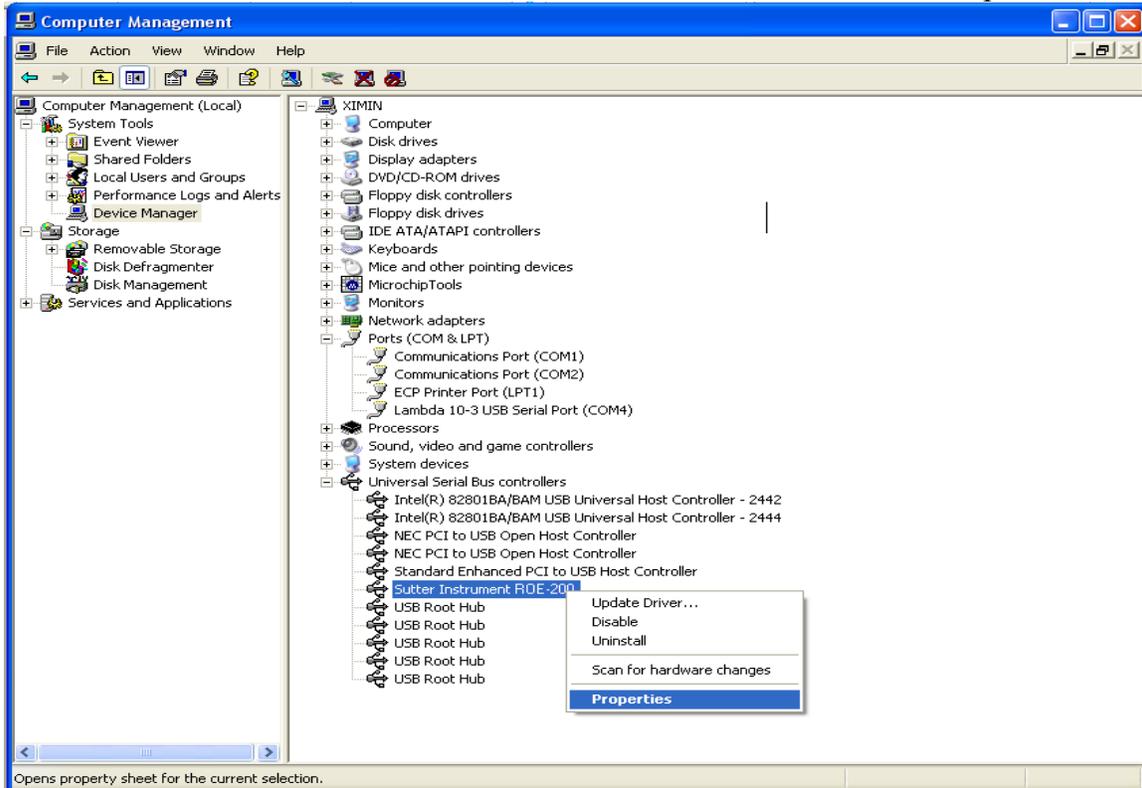


After installing the driver successfully open <Device Manager> and you will see the device shown in the Bus and Ports folder.

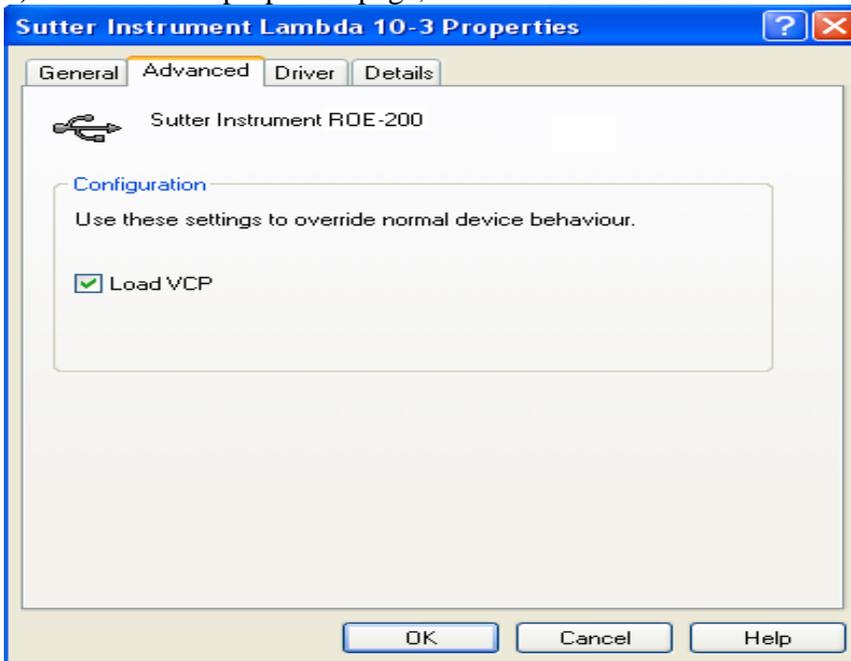


2. How to configure D2XX driver for Lambda devices

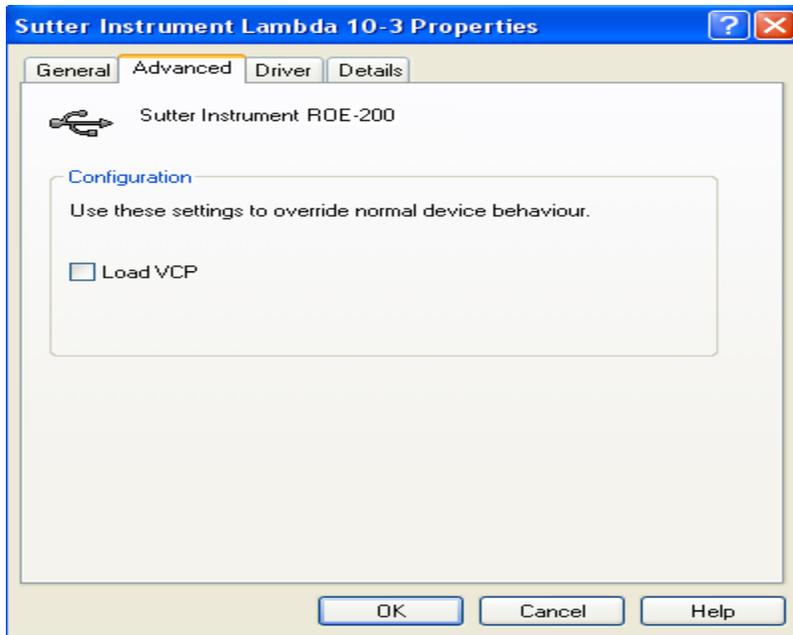
1) Make sure the Lambda device power is on, then open <Device Manager>. Right click the Lambda device under “Universal Serial Bus controllers” then select <Properties>.



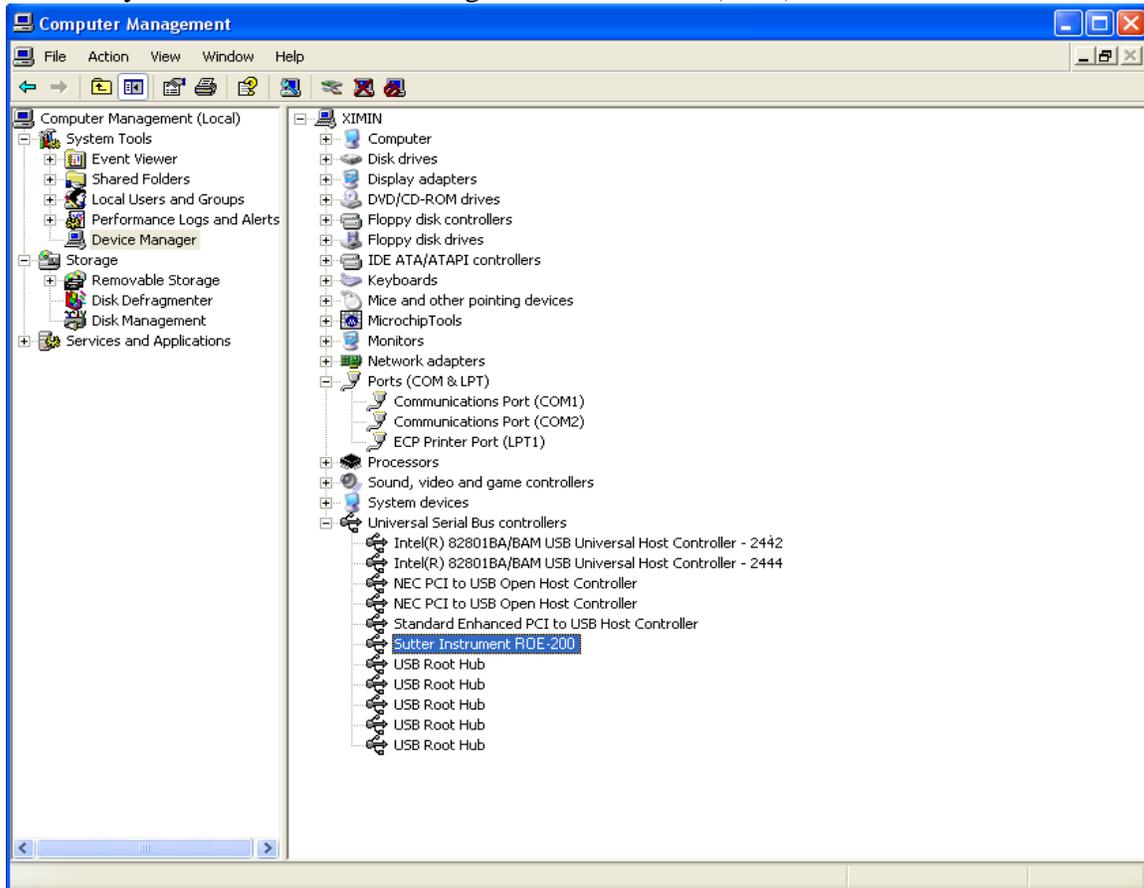
2) On the device properties page, select <Advanced> tab.



3) Uncheck “Load VCP”, then press <OK>.



4) Reboot the Lambda device and check <Device Manager>, you will see that configured Lambda device has been removed from “Ports (COM & LPT)”. The Lambda device is then ready to work with the PC using the D2XX driver (USB).



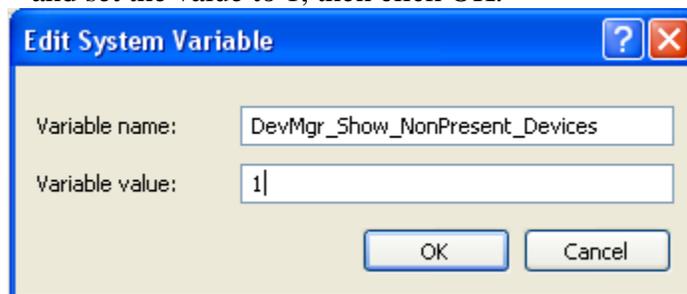
3. How to uninstall CDM driver on PC for manipulator

Manipulator device can be removed using the <Device Manager> by simply right-clicking on the device and selecting “Uninstall”. This will delete the associated registry entries for that device only.

Under Vista64, if you select <Delete the driver software for this device> when you uninstall the Manipulator device, all the driver files will be removed from the PC. Under Windows XP, driver files and OEM INF and PNF files must be removed manually or by a custom application. OEM INF and PNF files are located in the “Windows\inf” directory and can be identified by searching for a VID and PID string matching the device installed e.g. VID_1342 & PID_0001. Once the matching OEM INF files are found (e.g. oem10.inf for SICDMBUS.INF and oem11.pnf for SICDMPORT.INF), the corresponding PNF files must also be removed (e.g. oem10.pnf and oem11.pnf). Driver files are located in the Windows\System32 and Windows\System32\Drivers directories.

Some points to note about this un-installation method:

- If the VCP driver has been installed for this device, the COM port driver should be removed before the bus driver. If the bus is removed first, the COM port will no longer appear in the <Device Manager>.
- If Manipulator CDM driver files are deleted when you uninstall one Manipulator device while other installed devices such as Lambda devices (e.g. Lambda SC, Lambda 10B) still require them, those devices will not work correctly. This can be fixed by right clicking the device and selecting “Reinstall Driver” which will replace the missing files.
- If a device to be uninstalled is not connected to the PC, the device can still be removed by setting the device manager to show phantom devices. This can also allow a virtual COM port to be uninstalled if the bus layer has been removed first. To display phantom devices in <Device Manager>, a new system variable is required. Open “Control Panel > System” then select the “Advanced” tab and click “Environment Variables”. In the System Variables section (**NOT THE USER VARIABLES SECTION**), click “New” to display the following window and create a new System Variable called “DevMgr_Show_NonPresent_Devices” and set the value to 1, then click OK.



Open the <Device Manager> and select “View > Show Hidden Devices”. <Device Manager> will then show all hidden and phantom devices available on that PC as shaded.

