

# Summary of Installation Instructions for Gerber USB to Serial and Gerber USB to Parallel Interface Cables

Thank you for purchasing a Gerber USB Interface Cable.

These Gerber USB Interface cables include the needed interface chips, drivers and cables to successfully GSP hardware devices:

- The USB to Serial Cable will connect GSP sprocketed plotters to USB ports (Cable P/N P83305A). These USB to SERIAL cables have been tested using Windows® XP™ SP3 (32 bit), Windows Vista™ (32 or 64 bit), and Windows 7™ (32 or 64 bit) operating systems.
- The USB to Parallel Cable will connect GERBER EDGE® 1/EDGE 2 systems to USB ports (New Cable P/N P83301A or legacy cable P/N P79330A). The USB to PARALLEL cables can be used with Windows XP 32 and Windows 7 32 and 64. Vista is not supported at this time for USB to Parallel.
  - 1 The use of these cables requires OMEGA 4.0 Build 54 or later, or OMEGA 4.0 Build 38 with SP1 build 13 (or later). You may be required to upgrade your OMEGA 1.x, 2.x or 3.x software to successfully use these cables. OMEGA 4.0 is compatible with Windows XP SP3 (32 bit), Windows Vista (32 or 64\* bit) and Windows 7 (32 or 64\* bit) operating systems. (\*3D Autocurve will not work with any 64 bit operating system.)
  - 2 The use of these cables also requires drivers. These can be found in the UsbInterfaceCables folder of the OMEGA 4.0 Build 54 DVD, and in the OMEGA 4.0 SP1 Build 13 download, and from [www.gspinc.com](http://www.gspinc.com) > Support > Downloads > Omega. The serial cable drivers are in the *drive:UsbInterfaceCables\UsbToSerial* folder, and the parallel cable drivers are in the *drive:\UsbInterfaceCables\UsbToParallel* folder. Be sure that you have the needed Gerber USB drivers available BEFORE beginning installation.
  - 3 The installation instructions vary depending on the Operating system, the Gerber output device and the cable being used.
    - ◆ Find the Gerber output device, operating system and cable you are installing,
    - ◆ READ the summary instructions first.
    - ◆ Be sure to have all the needed drivers, cables and components.
    - ◆ Then install.
  - 4 Be sure to check [www.gspinc.com](http://www.gspinc.com) > Support > Downloads > Omega for the latest downloads, drivers and software versions.
  - 5 If data errors occur when using these cables, purchase and install anti-static mats under the EDGE or plotter exhibiting the error.
  - 6 If a longer cable is needed, purchase and install a POWERED USB hub. Do not use a USB hub that gets its power from the USB port itself.
  - 7 When using these interface cables, turn off USB power management or sleep settings. Consult your operating system documentation for accurate details to perform this function.

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# USB to Parallel Cable Installation Instructions for Windows 7 32 and 64 bit

**Device: EDGE 1 or EDGE 2**

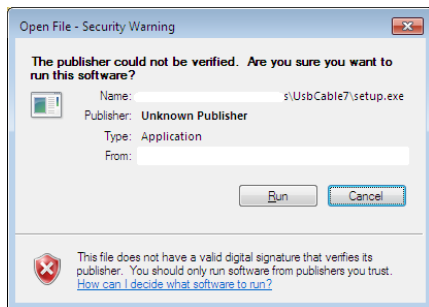
**OS: Windows 7 32 or 64 Bit**



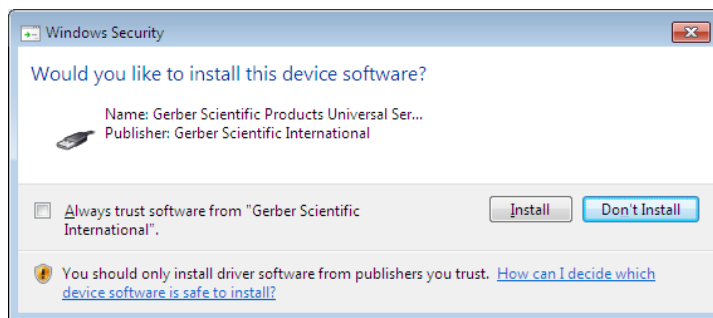
*IMPORTANT NOTE: Vista is not supported for USB to Parallel.*

**Cable: Original GSP USB to parallel cable (P79330A) OR NEW GSP USB to Parallel Cable Kit (P83301A)**

- 1 DO NOT PLUG IN THE CABLE FIRST.
- 2 Install OMEGA 4.0 Build 54 or later, or load OMEGA 4.0SP1 Build 13 or later on top of a previous OMEGA 4.0 build 38.
- 3 Run the Setup.EXE installation program from the *Drive:\UsbInterfaceCables\UsbToParallel* Folder from one of the above software releases.
- 4 You may get a message about the software publisher not being verified. Click Run.



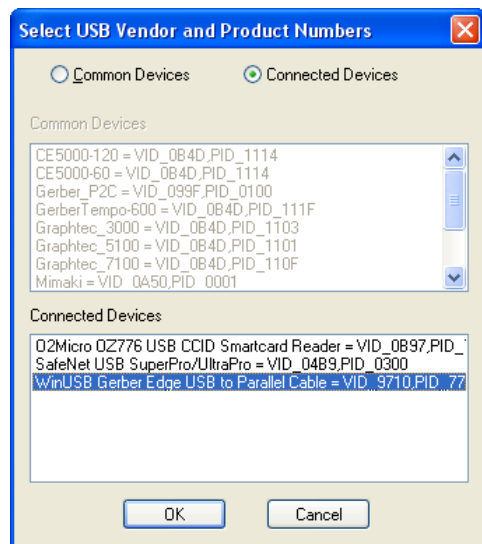
- 5 Another Verification box may appear. Click Install.



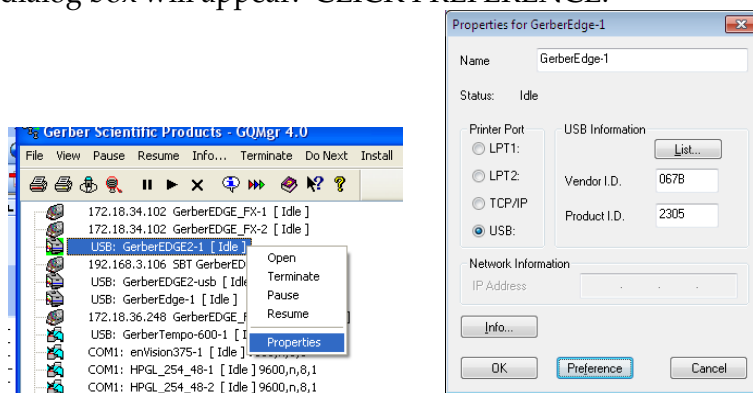
- 6 This will install the needed drivers and INF files.
- 7 Plug in the Gerber Cable after the above driver installation is complete. Plug and Play will find the needed drivers automatically.
- 8 Once the drivers are installed, a message will appear in the bottom right corner of the screen alerting you to the successful installation of the USB driver. If this message does not appear, repeats steps 3-6.



- 9 Add the EDGE as a USB device through GSPTray using USB as the connection port.
- 10 Start GSP Plot and Open any EDGE Job. Choose the USB EDGE just installed as the output device. Send the job to the USB EDGE.
- 11 GQManager will blink. Click on GQMmgr and a “Select USB Vendors and Product Numbers” dialog box will appear.
- 12 Click “Connected Devices



- 13 Click on the Proper Cable:
  - If using the original GSP USB to Parallel cable, choose *WinUSB Gerber Edge USB to Parallel Cable VID\_0857,PID\_0001*
  - If using the New GSP USB to Parallel cable choose *WinUSB Gerber Edge USB to Parallel Cable VID\_9710,PID\_7705*
- 14 Access this Box again from GQManager by right clicking on the EDGE Device >Click Properties
- 15 A PROPERTIES dialog box will appear. CLICK PREFERENCE.



- 16 Click OK to exit the properties dialog box.

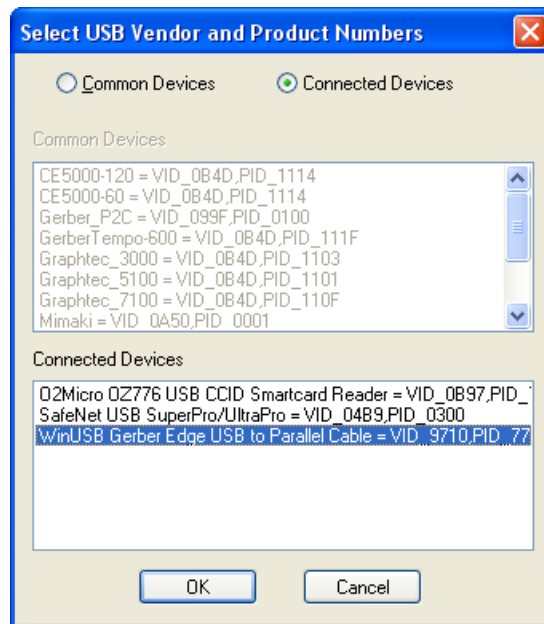
# USB to Parallel Cable Installation Instructions for Windows XP 32 bit

**Device: EDGE 1 or EDGE 2**

**OS: Windows XP 32 bit**

**Cable: Original GSP USB to parallel cable (P79330A) OR NEW GSP USB to Parallel Cable Kit (P83301A)**

- 1** Install OMEGA 4.0 Build 54 or later, or load OMEGA 4.0 SP1 Build 13 or later on top of OMEGA 4.0 build 38
- 2** Plug in the cable.
- 3** When Plug and Play appears, manually locate and install the GspWinUSB.Inf file from the Gerber UsbInterfaceCables>UsbToParallel Folder located on one of the above releases. Click NEXT.
- 4** If asked, browse to the X86 folder of the USB driver and install the WinUSBcoinstaller2.DLL
- 5** Reboot if needed
- 6** Once the USB driver is installed, add the EDGE or EDGE 2 as a USB device through GSPTray. Choose USB as the Connection Port.
- 7** Start GSP Plot and Open any EDGE Job. Choose the EDGE just installed as the output device. Send the job to the USB EDGE.
- 8** GQManager will blink. Click on GQMmgr and a "Select USB Vendors and Product Numbers" dialog box will appear.
- 9** Click "Connected Devices
- 10** Click on "WinUSB Gerber Edge USB to Parallel Cable" in the bottom "Connected Devices" section of the dialog box.
- 11** Click on the Proper Cable:
  - ◆ If using the original GSP USB to Parallel cable, choose WinUSB Gerber Edge USB to Parallel Cable VID\_0857,PID\_0001
  - ◆ If using the New GSP USB to Parallel cable choose WinUSB Gerber Edge USB to Parallel Cable VID\_9710,PID\_7705



- 12** Access this Box again from GQManager by right clicking on the EDGE Device >Click Properties
- 13** A PROPERTIES dialog box will appear. CLICK PREFERENCE.
- 14** Click OK to exit the properties dialog box.

# USB to Serial Cable Installation Instructions (Summary Instructions)

**Device: GSP Sprocketed Plotter (enVision, GSx Plus, GS15 Plus)**

**OS: Windows XP 32 bit, Vista 32 or 64 bit, or Windows 7 32 or 64 Bit**

**Cable: Gerber USB to Serial Cable (P83305A)**

**Windows XP 32 bit or Windows Vista 32 or 64 bit**

- 1** Install OMEGA 4.0 Build 54 or OMEGA 4.0 SP1 Build 13
- 2** Be sure to have the *Drive:\UsbInterfaceCables\USBToSerial* Folder available from OMEGA 4.0 Build 54, OMEGA 4.0 SP1 Build 13, or [www.gspinc.com](http://www.gspinc.com).
- 3** Plug in the cable. When Plug and Play appears, manually browse to the USB to Serial folder that corresponds to the OS you are using. Click Next to install the driver.
- 4** Plug and Play will prompt you to install a SECOND driver for the Virtual Com Port. Manually browse to the USB to Serial folder that corresponds to the OS you are using. Click Next to install the Virtual Com Port.
- 5** Then add the Plotter connected to the new Virtual Com port through GSPTray.
- 6** More detailed instructions are available [later in this document](#).

**Windows 7 32 or 64 bit**

- 1** *If the PC is connected to the internet...* plug in the cable and Windows 7 will find the driver automatically and install a virtual COM port.
- 2** Once the USB device is installed, Use GSPTray to add the Plotter and connect it to the new Virtual Com port.
- 3** IF the PC is NOT connected to the internet...
- 4** Be sure to have the *Drive:\UsbInterfaceCables\USBToSerial* Folder available from OMEGA 4.0 Build 54, OMEGA 4.0 SP1 Build 13, or [www.gspinc.com](http://www.gspinc.com).
- 5** Plug in the cable.
- 6** Start Device Manager and find the USB device that has the YELLOW EXCLAMATION mark under Other Devices, then USB Serial Converter.
- 7** Right click on the USB device and Manually update the USB driver by browsing to the folder that corresponds to the OS being used. Click OK to return to Device Manager.
- 8** The USB driver is now installed, but the virtual COM port driver must now be installed in Device Manager. These steps are almost identical to the the previous few steps. Find the USB device that has the YELLOW EXCLAMATION mark under Other Devices, then USB Serial Converter.
- 9** Manually update the USB driver by browsing to the folder that corresponds to the OS being used. Click OK to return to Device Manager.
- 10** Then add the Plotter connected to the new Virtual Com port through GSPTray.
- 11** More detailed instructions are available [later in this document](#) or in the USBInterfaceCables folder available from OMEGA 4.0 Build 54, OMEGA 4.0 SP1 Build 13, or [www.gspinc.com](http://www.gspinc.com).

# Detailed GSP USB to Serial Driver Installation Instructions for Windows 7 32 bit and 64 bit

For use with OMEGA™ 4.0 Build 54 or later or with OMEGA 4.0 SP1 Build 13 or later.

## USB to Serial Windows 7 32 and 64 bit Installation Instructions

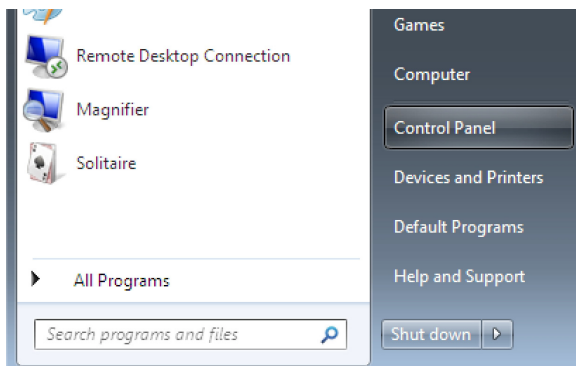
- 1 Install OMEGA 4.0 build 54 or install OMEGA 4.0 build 38, then also install OMEGA 4.0 SP1 Build 13 on top of build 38.
- 2 Have the the OMEGA 4.0 build 54 DVD or OMEGA 4.0 SP1 build 13 download available.

### ➔ To install with Windows 7 and an Internet connection

- 1 Connect the USB to Serial device to a spare USB port on your PC.
- 2 If there is an available internet connection, Windows 7 will silently connect to the Windows Update website and install any suitable driver it finds for the device.
- 3 If the automatic installation takes place there is not need to continue with the procedure outlined below.

### ➔ To install with Windows 7 without an Internet connection

- 1 Connect the USB to Serial device to a spare USB port on your PC.
- 2 If no suitable driver is automatically found then the following procedure should be followed.
- 3 Press the Windows start button to bring up the start menu and select **Control Panel**.

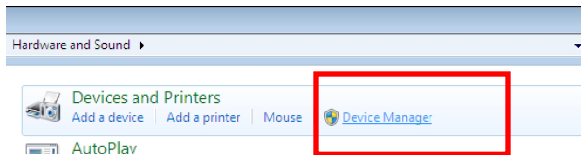




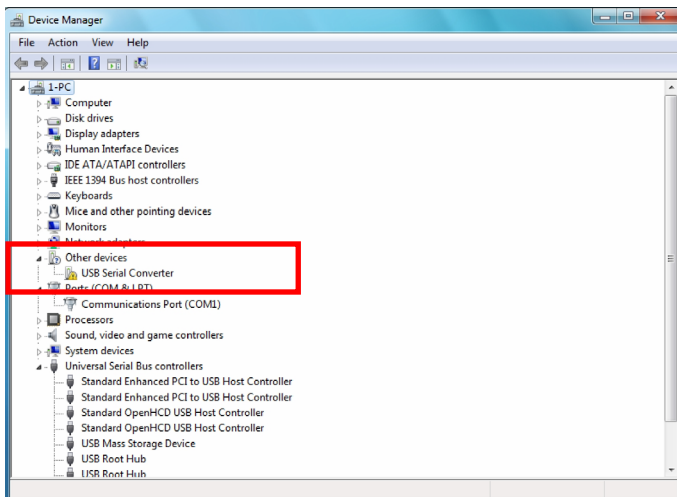
- 4 From the Control Panel window select **Hardware and Sound**.



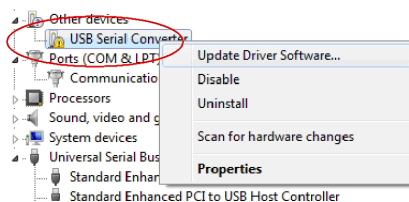
- 5 Choose **Device Manager**.



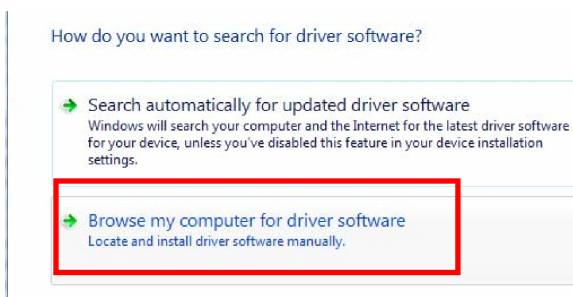
- 6 In the Device Manager window there will be a device under Other Devices with a yellow warning symbol to indicate a problem, ie: no driver installed. The text next to this device will depend on the device attached. In this example, the device is listed as **USB Serial Converter**.



- 7 Right click on **Other Devices** to bring up a menu as shown below. From the displayed menu select **Update Driver Software**. This then displays the option for an automatic search or a manual search.



- 8 Select the second option to browse manually.



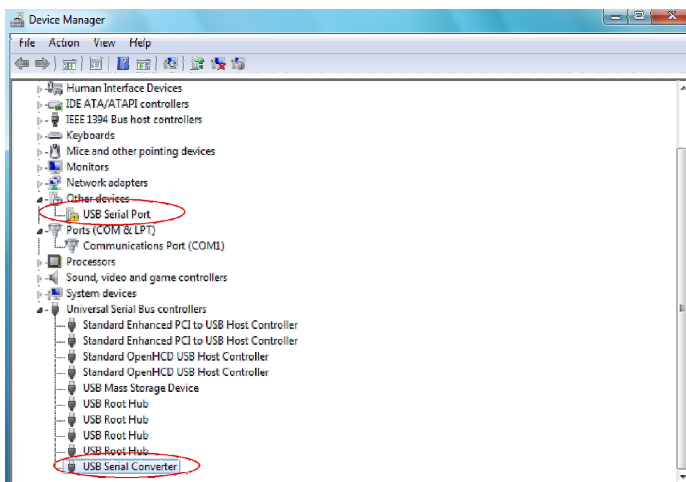
- 9 Click **Browse** and choose the corresponding OS driver in the DVD drive. Click **Next** to continue.



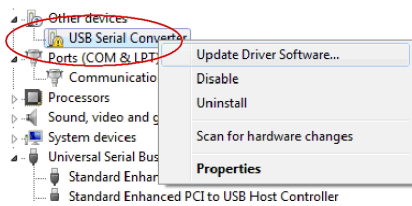
- 10 When the installation has finished a completion screen is displayed.
- 11 Press **Close** to close this window and go back to the Device Manager Window.



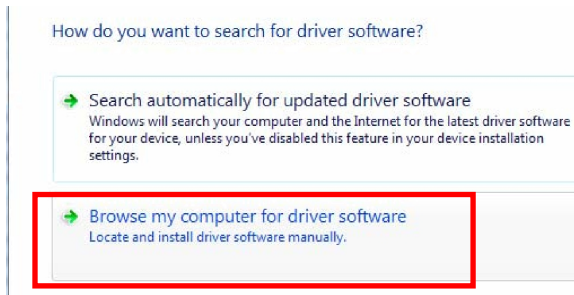
- 12 The Device Manager will still show a device under **Other Devices** but in addition to this there is a new entry under Universal Serial Bus Controllers as indicated in the screenshot as the **USB Serial Converter**. This indicates that the bus layer of the driver is installed.
- 13 At this point, the Virtual Com Port layer of the driver must be installed. This process is almost a repeat of the last few steps.



- 14 Right click on **Other Devices** then **USB Serial Converter** to bring up a menu as shown below. From the displayed menu, select **Update Driver Software**. This then displays the option for an automatic search or a manual search.

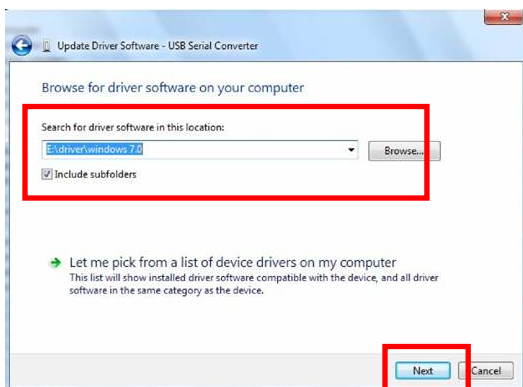


- 15 Select the second option to browse manually.

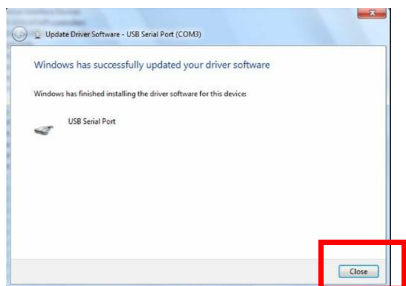


- 16 Click **Browse** and choose the corresponding OS driver in the DVD drive. For example, choose d:\UsbToSerial\Windows7.

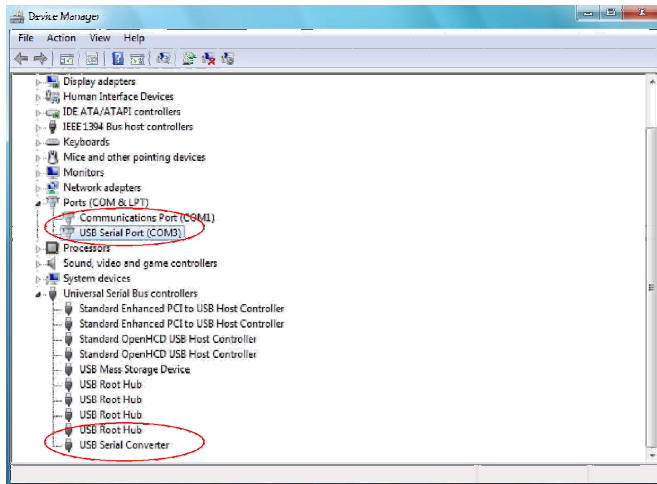
- 17 Click **Next** to continue.



- 18 When the installation has finished a completion screen will display. Click **Close** to return to Device Manager.

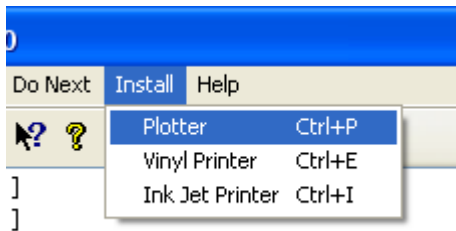


- 19** The Device Manager NOW shows a USB Serial Port under Universal Serial Bus Controller and Ports (COM & LPT). The screen shot below displays a correct installation where a new virtual COM3 port has been added. This newly added virtual COM port may be a different com port on your system, depending on your system configuration. BE SURE TO NOTE WHICH COM PORT HAS BEEN ADDED. At this point, the plotter must be configured to use this newly added virtual COM port using OMEGA “Add/Remove Devices.”

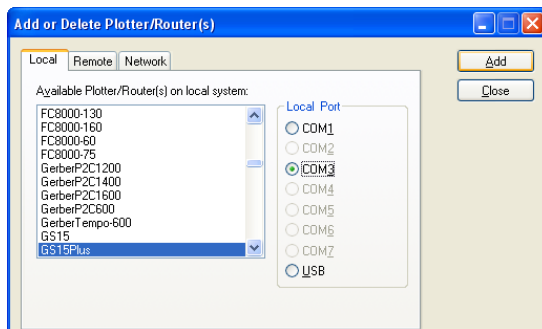


➔ **To add the plotter to the newly installed COM port**

- 1** Start GQManager, then click on the Install Menu > plotter.



- 2** Choose the plotter from the list on the left, choose the newly installed COM port on the right. Then click Add.



- 3** Name the device if needed. Click OK.



- 4 Choose the device from GSPPlot and output as needed.

## Detailed GSP USB to Serial Driver Installation Instructions for Windows XP and Windows Vista

This product is intended to connect GSP enVision, GSx Plus and GSPlus plotters to a USB port running on PCs that have Windows XP SP3 (32 bit), Windows Vista (32 or 64 bit), or Windows 7 (32 or 64 bit) installed.

### USB to Serial Windows XP and Windows Vista Installation Instructions

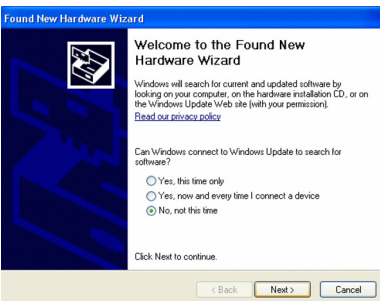


*Note: The screen images below may be different on your computer.*

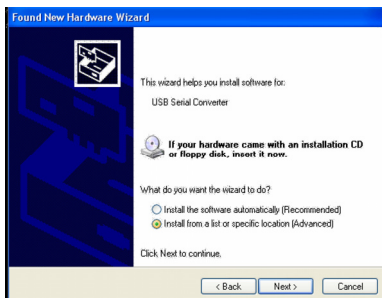
- 1 Install OMEGA 4.0 build 54 or install OMEGA 4.0 build 38, and also install OMEGA 4.0 SP 1 build 13 on top of build 38.
- 2 Have the OMEGA 4.0 build 54 DVD or OMEGA 4.0 SP1 build 13 available.
- 3 Connect the GSP USB to Serial cable to a USB port.



- 4 When the **Found New Hardware Wizard** appears, click **No, not this time**. Click **Next** to continue.

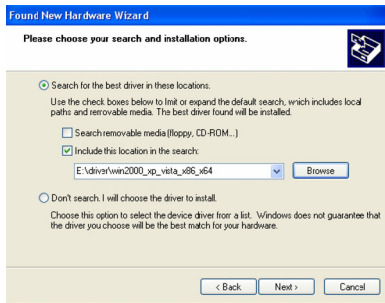


- 5 Select **Install from a list or specific location (Advanced)**, then click **Next** to continue.

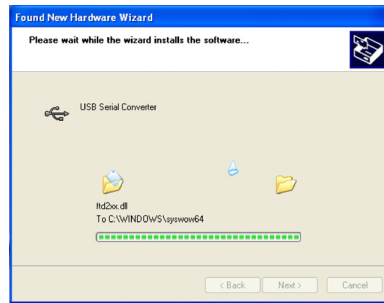
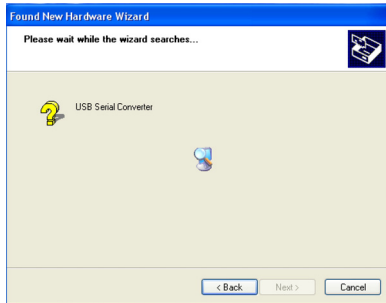


- 6 Select **Include this location in the search**.

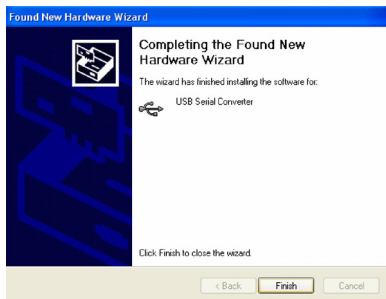
- 7 Click **Browse**.
- 8 Choose the corresponding OS driver from the DVD drive (for example, D:\UsbInterfaceCables\UsbToSerial\winxp\_vista\_x86\_x64).
- 9 Click **Next** to continue.



- 10 The install wizard will copy the files to your system.

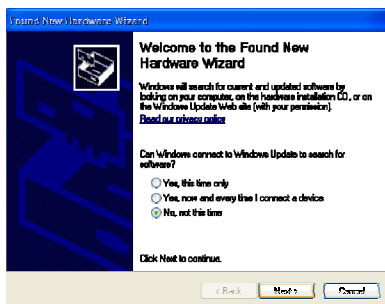


- 11 Click **Finish** to close the wizard.

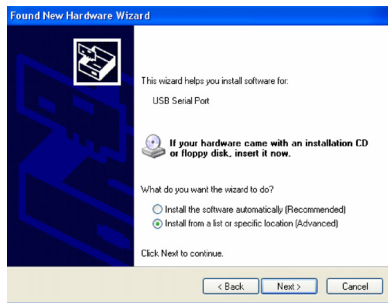


- 12 At this point, a virtual Serial or COM port must also be installed. A second hardware Wizard will begin.

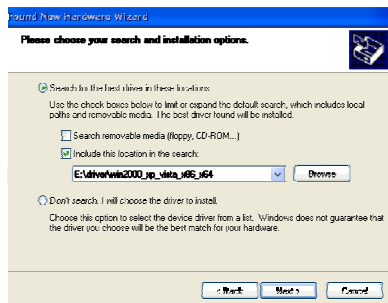
- 13 Select **No, not this time**. Click **Next** to continue.



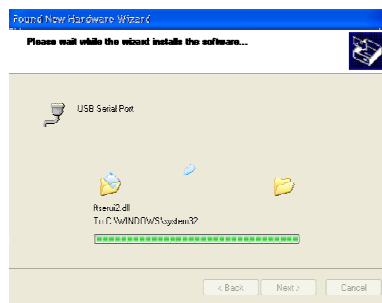
- 14 Select **Install from a list or specific location (Advanced)**, then click **Next** to continue.



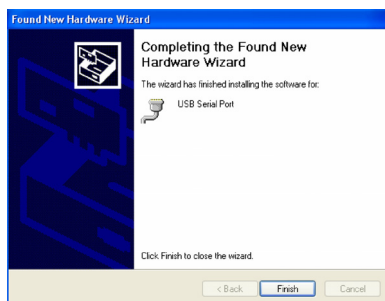
- 15 Select Include this location in the search, click Browse and choose the corresponding OS driver in the DVD (for example, choose D:\UsbInterfaceCables\UsbToSerial\winxp\_vista\_x86\_64).
- 16 Click Next to continue.



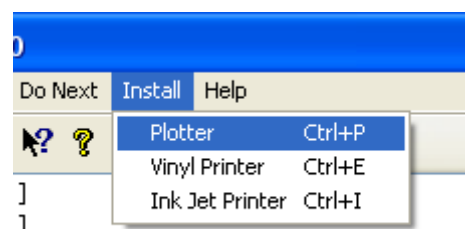
- 17 The hardware wizard will search for the needed file in the specified location and will copy the needed file to your system.

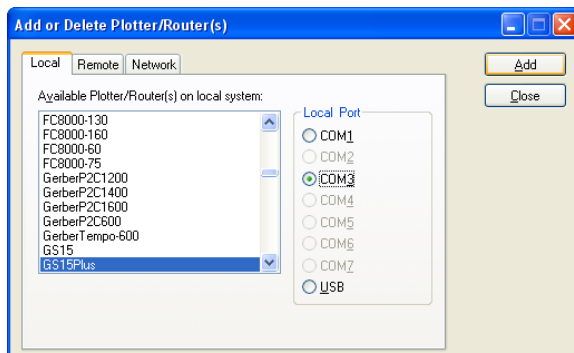


- 18 Installation is complete. Click **Finish** to close the wizard. A message will appear stating that the hardware is ready to use.



- 19 At this point, add the plotter to the newly installed COM port.
- 20 Start GQManager, then click the Install Menu > Plotter.
- 21 Choose the plotter from the list on the left, choose the newly installed COM port on the right, and click Add.





**22** Name the device if needed. Click OK.



**23** Choose the device from GSPPlot and output as needed.