

Time Zone Displays (TZA) Manual

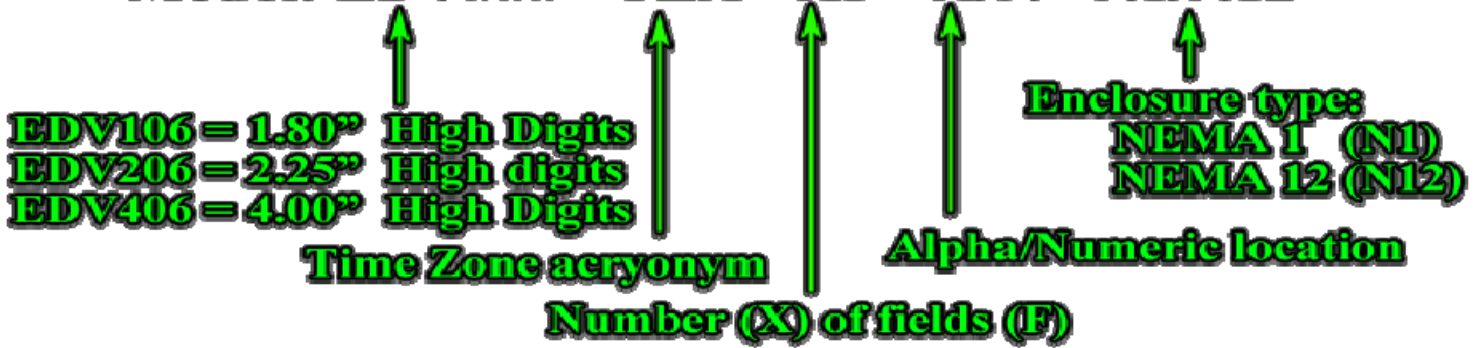


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Electronic Displays Inc. - Time Zone Display

Model: EDV### - TZA - XF - A/N - N1/N12



Display Specifications and Options

Digit Height	2.25" or 4"
Display Colors	Red Digits (Standard) Green, Amber or Blue (Optional)
Location Designation	1.2" Alpha/Numeric display
Number of Time Zones	4 to 10 Fields
Indoor or Outdoor	Indoor
Viewing Distance	Up to 100 Feet
Color of Acrylic Face	Red
Enclosure Finish	Black Powder-Coat Finish
Enclosure Types	Horizontal Design Matrix Design Vertical Design
Enclosure NEMA Rating	NEMA 1 NEMA 12 (Optional)
Power Supply	U.L. Listed
Display Power Source	120 V _{AC} @ 60 Hz
Power Consumption	15 Watts Max Per-Field
Current Draw	~700 mA Per-Field
Mounting Method	Two Brackets for Hanging / Wall Mounting
Warranty	One-Year Factory Service Warranty
Configuration method	Software only
Estimated time to configure display	10 Minutes
Software Name	Time Zone Module

Programming the EDV### - TZA - XF - A/N - N1/N12

1. Install the Time Zone Module software provided with the display. There are two different version of software. Only use the software that pertains to your display. Jump to page 9 of this manual for a download location of this manual.
2. The next step is to determine what communication port you are using to communicate with the display. Follow the step by step instructions that pertain to your operating system below.

Windows XP

- I. Left click on the **Start** button at the bottom of the screen. Right click on **My Computer** and select **Properties**.

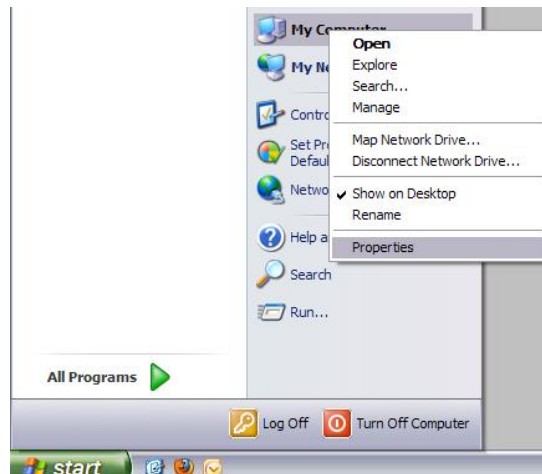


Figure 1

- II. The System Properties window will appear. Click the **Hardware** tab at the top and select **Device Manager**.
- III. Once the Device Manager window appears, scroll down to the **Ports** section and click the “+” sign on the left. If you are using a USB-to-Serial adaptor, it will typically have the manufacturer name of the cable followed by the Com Port number (**Com#**). Record your Communication Port listed.

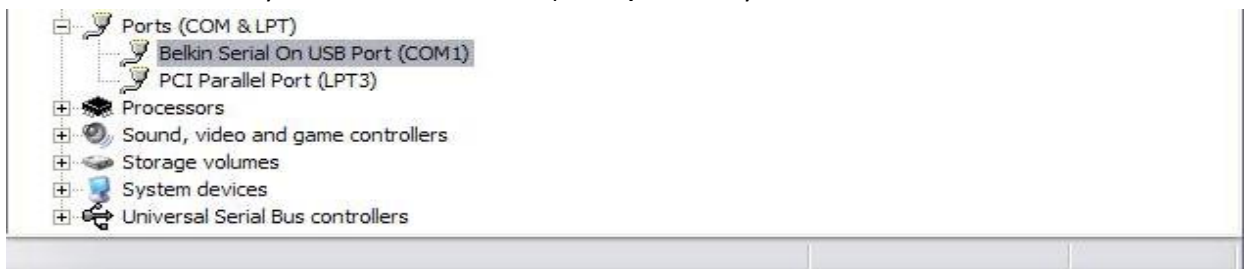


Figure 2

Note: If you are using a serial cable to connect to the display, it will appear as “Communication Port (Com#)”

Windows Vista/Windows 7

- I. Left click on the windows icon in the lower left of the screen. Right click on **My Computer** and select **Properties**
- II. The system properties window will appear. Click on **Device Manager** on the left side of the window.

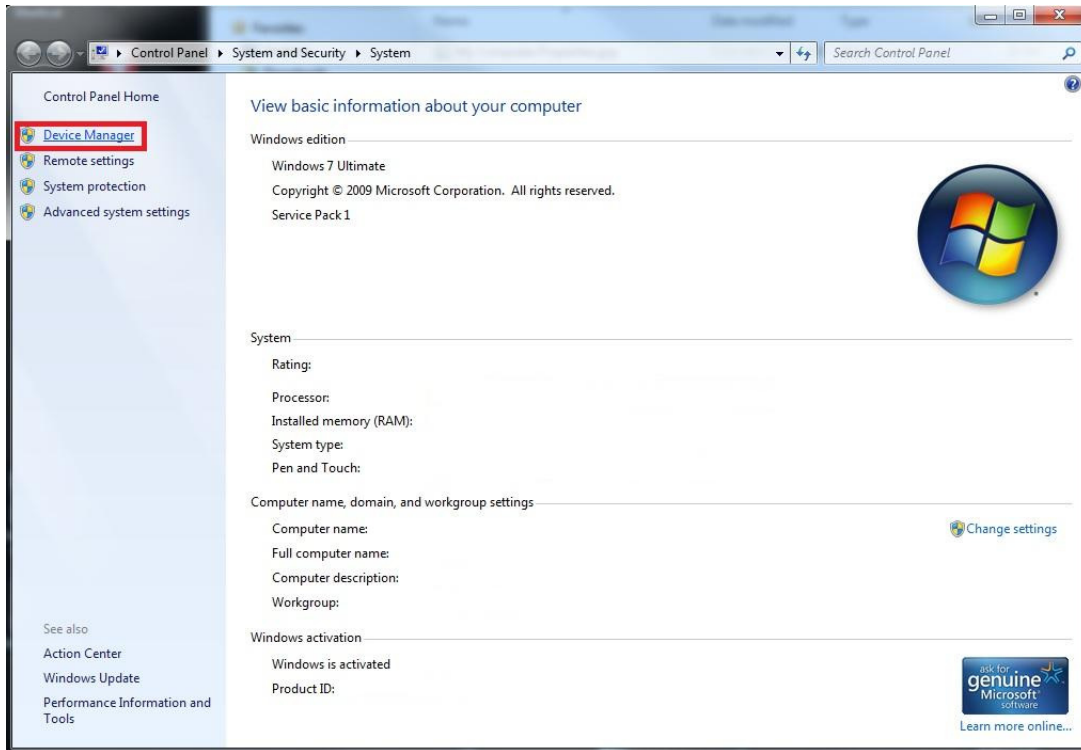


Figure 3

- III. Once the Device Manager window appears, scroll down to the **Ports** section and click the “+” sign on the left. If you are using a USB-to-Serial adaptor, it will have the manufacturer name of the cable followed by the Com Port number (**Com#**) .Record your Communication Port listed.



Figure 4

Note: If you are using a serial cable to connect to the display, it will appear as “Communication Port (Com#)”

2. Once you determined your communication port number, you now have to set your communication port number in the software. Follow the guide on the next page for Time Zone Module Version 4 software. Time Zone Module Version 6 software guide begins on page 7.

Time Zone Module Version 4.0

Sets the message that will be sent to the address selected.

Time sign ID sets the "address" (Time Zone) that the time configuration will be sent to.

Sets the Communication Port used to communicate with the display.

Adjusts the speed that a scrolling message scrolls through the display.

The screenshot shows the 'TimeZone' software window. At the top left is a 'Set Com' button (orange box). Below it is a 'Time Sign ID' dropdown menu (red box) showing '00'. To the left is a 'Sign Message' section with a text area (green box). To the right is a 'Move Speed' slider between 'Slow' and 'Fast' (black box). Below these are two main configuration sections: 'Date and Time' (blue box) and 'Set Time Zone and Daylight Saving Time' (pink box). The 'Date and Time' section includes fields for Date (12/27/2012), Time (07:55:11), Time Format (24 Hour), and Date Format (ALPHABET, MM-DD-YY). The 'Set Time Zone and Daylight Saving Time' section includes a 'Country/Region' dropdown (UTC-6 Central Time, Mexico, Saskatchewan) and DST Start/End settings (Year, Month, Day, Hour). At the bottom are 'Transfer' and 'Cancel' buttons (cyan box).

Sets the desired Time Zone that will be set for the selected Sign ID.

Sets the desired Date and Time format for the selected Time Zone.

Sends all the configurations set to the selected Sign ID.

1. To set your communication port, click the "Set Com" (Orange box above) and click the drop down arrow to select the Com. Port number you determined earlier.
2. Now that you have set your communication settings in the software, you are ready to configure your display.

Select the **Sign ID** (Address) through the drop down arrow for the desired time zone you want to change (Red box above). The address of the left most time zone is 1 and increments by 1 going from left to right.

If you are still unclear of what the address number is for the time zone, disconnect and reconnect the power from the display; the display will show "**Addr: ##**" in the Location portion of the display when it is turned on.

3. Now you can set your Time zone. In the "Set Time Zone and Daylight Savings Time" portion of the software, click the drop down arrow next to "**Country/Region**" and select the desired Time Zone.

The Daylight Savings Time (DST) can be set as well; however, is not required to configure the display. The display will set the time on the display based off the time on your computer.

4. Now set the Location by typing in the Time Zone/Message that you wish to have set on the display in the Messages section of the software (**Green** box in the overview).

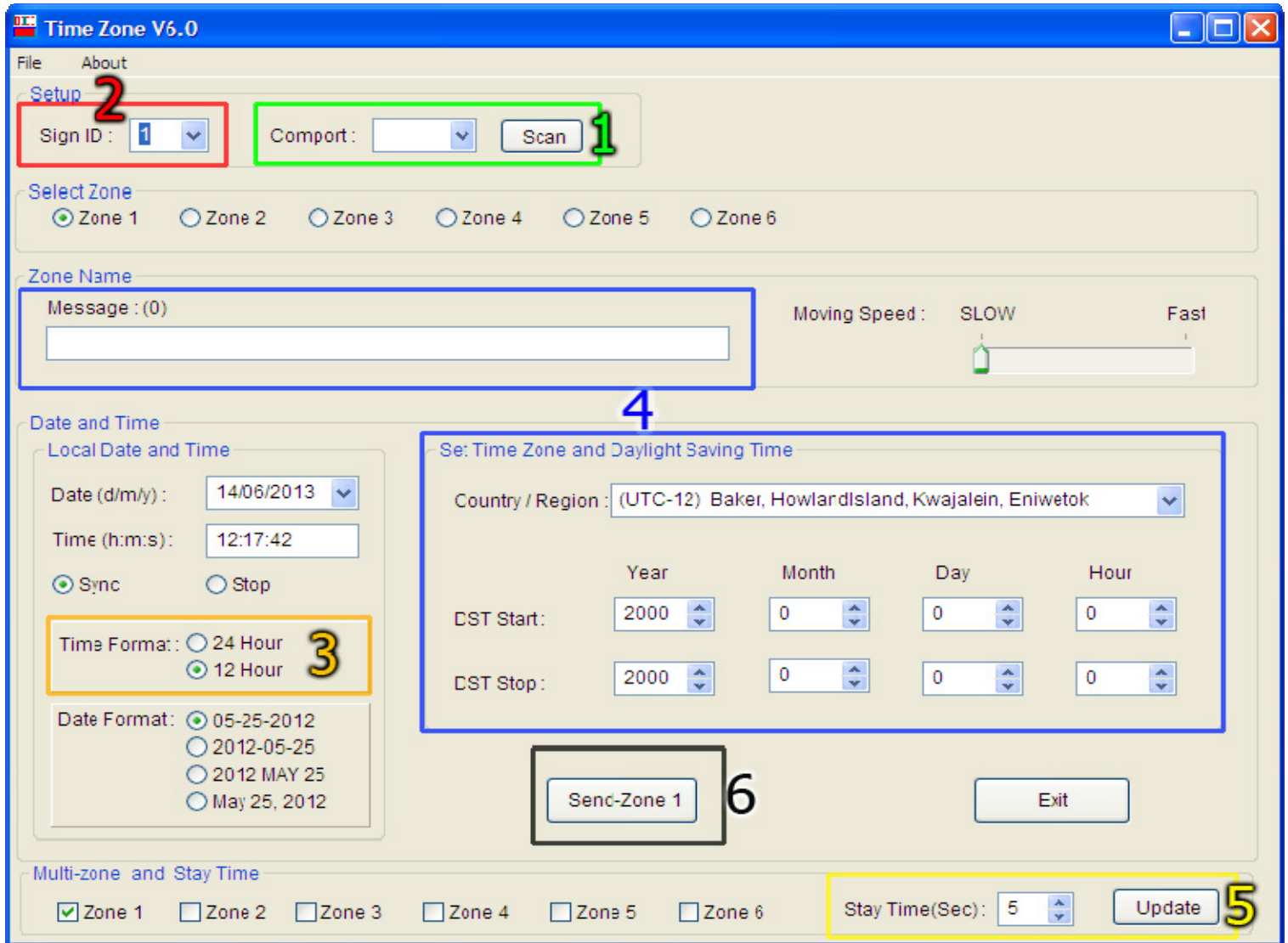
If the message / location is too long to stay static on the display, it will scroll. If you wish to set the rate that the display scrolls the message/location, adjust the slide in the “**Move Speed**” portion of the software (**Black** Box).

5. You can now set the desired format you want the **Time Format** and **Date Format** for the Time Zone (**Blue** Box).

You are able to switch between 24 hour format and 12 hour format; in addition to three different Date Formats (MM – DD – YY , YY – MM – DD , DD – MM – YY) and whether the date will appear in Alpha or Numeric characters.

6. Now you can transfer the configuration settings you have set to the display by pressing the **Transfer** button (**Teal** Box.)
7. Now increment the Sign ID and repeat steps #3 to #7 for the next time zone until you have configured the entire display.

Time Zone Module Version 6.0



1. Connect the display to your computer through a serial cable or a USB-to-Serial cable and select the **Scan** button that is inside the green outlined box above.
2. Select the **Sign ID** that you wish to configure. The Sign ID is the address of a time zone on your display. They begin at 1 from the left most time zone and increment by 1 for each time zone (See chart below for an example of a 6 time zone display).

Time Zone 1	Time Zone 2	Time Zone 3	Time Zone 4	Time Zone 5	Time Zone 6
ID: 1	ID: 2	ID: 3	ID: 4	ID: 5	ID: 6

For displays that have multiple lines of time zones, the ID's will continue from right most Sign ID onto the next line (Like reading a book).

The Sign ID of each Time Zone is also displayed in the Boot up sequence: **ID: ##**

3. Select whether you would like to display the time in **12 hour** or **24 hour** format.
4. Select the time zone offset through the **Country/Region** drop down arrow and input the **Message** you would like displayed underneath the time.

Setting Daylight Savings Time (DST) is optional; however, the display will need to be reconfigured to correct the time.

5. Set the **Stay Time** by clicking the **Update** button.
 6. Click **Send-Zone 1** button to update the selected time zone.
 7. Increment the Sign ID and repeat steps 2 through step 6 until the entire display is configured.
-

Notes about Time Zone Module Version 6.0:

- The entire display may take up to half a minute to synchronize all the time zones upon powering up.
- After setting the Stay Time (Step 5) and sending the time zone offset (Step 6), the time zone may not update until after the set Stay Time in step 5 (i.e. if the stay time in step 5 was set to 10 seconds, the time zone may not update with the new offset until 10 seconds have passed)
- If at any time an error has occurred during step 5 or 6, power cycle the display and try again after the boot up sequence has completed.

Frequently Asked Questions: ED### - TZA - XF - A/N - N1/N12

1. I lost a copy of my software. Where can I found another copy?

Another copy of the software can be found on our website. <http://www.electronicdisplays.com/>.
Click on **Support** (Top of page) and go to **Downloads** → **Software Downloads**.

<u>Time Zone Module Version</u>	<u>Direct Link</u>
Version 4.0	http://edisupport.helpserve.com/Knowledgebase/Article/View/142/12/time-zone-module-v40
Version 6.0	http://edisupport.helpserve.com/Knowledgebase/Article/View/165/12/time-zone-module-version-6

Both version of the software are not cross compatible with the other’s display.

2. What version of Time Zone Module do I need?

When the display is powered up, the display goes through a boot up sequence that lights all the LEDs’ on the display; in addition to showing the chip version number and Sign ID. Use the table below to determine what version to use based on the chip version listed in the boot up sequence

Chip Version	Software Version
AM10275V2	Time Zone Module Version 4.0
AM10275V3	Time Zone Module Version 6.0

3. I am receiving a ‘Open Com.’ Error. What do I do?

Another program is using the same communication port.

- Close all other programs.
- Check the ‘Processes’ Section of **Windows Task Manager** to see if another instance of Time Zone Module is running.
- If you are using a USB-to-Serial cable, use a different USB port on the computer and repeat the steps to determine your Communication Port.

4. I followed the guide and the display is showing the display an hour ahead (or Behind). What do I do?

Daylight Savings time (DST) for the time zone may be occurring or the time on the computer is incorrect. The issue can be resolved by setting the DST for that Time Zone or advancing the Time in the software manually.

5. I followed the guide to programming my display and it is not receiving my configuration when I try to transfer it. What do I do?

If a serial-to-USB adaptor is being used, the driver may be corrupted or the Com. Port set in the software may be incorrect.

Consult the ‘Frequently asked questions and Issues with Communication Ports’ on page 24 to resolve this issue.

Frequently asked questions and Issues with Communication Ports

1. I am using a serial cable, not a serial-to-USB adaptor. How do I know what Com Port I am using?

If you are using a serial cable it will appear under the “Ports” section of Device Manager as “Communication Port (Com#).” By default, the computer’s BIOS will typically assign the serial port to COM1 or COM3.

2. Do I have to verify the Com Port that is being used each time I communicate with my display?

The only time that you have to verify the Com Port is when you initially set the communication settings for the software or if you are using a serial-to-USB adaptor and are using a different USB port on your computer than what you initially used to configure the display.

There are multiple USB ports on a computer and the operating system assigns each item that is connected to the computer a Com Port; therefore, if you were to move a serial-to-USB cable from the front USB port to a USB port in the back, then the Com Port number *will* change as well.

3. I plugged my USB-to-Serial cable into my computer and do not see it in the port section of device manager.

There are several variables that can prevent the serial-to-USB cable from appearing in the “Ports” section of Device Manager: the driver for the serial-to-USB cable is not installed, the wrong driver is installed or the serial-to-USB is damaged/malfunctioning.

To resolve the issue, plug the serial-to-USB adaptor into the computer and look through the device manager for a device with a “!” next to it (Look below at Figure 5 for an example). If there is a device that has a yellow “!” next to it, then Windows does not have the correct driver for the serial-to-USB cable. The driver for the cable can be found on the CD that came with the cable, or by doing an internet search with the manufacturer and the model number of the serial-to-USB cable.



Figure 5

If there is no yellow “!”, then try using a different USB port on your computer to see if that resolves the issue. If the problem still persists, there may be a driver conflict with windows or the serial-to-USB adaptor may be defective.

4. There is a yellow “!” next to an unknown device in the “Ports” section of Device Manager and nothing else is listed.

The incorrect driver has been installed for the serial-to-USB cable or no driver has been installed. Install the driver from the CD that came with the serial-to-USB cable or by downloading the drivers from the manufacturer’s website.

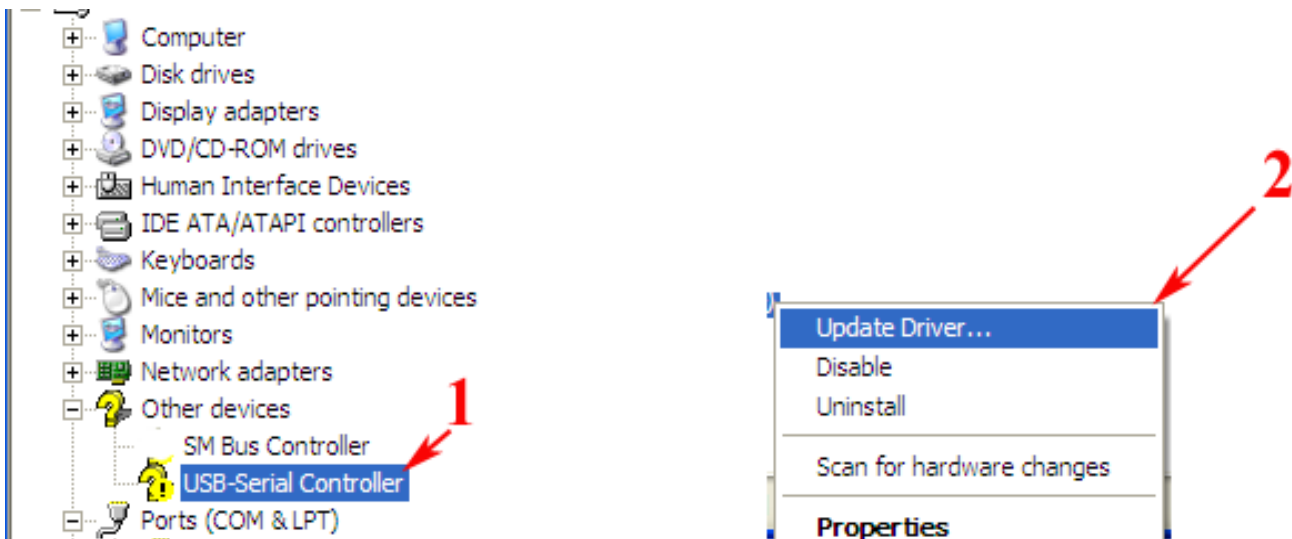
5. I installed the drivers for the USB-to-Serial device; however, I still cannot communicate with the display and there is a yellow "!" by the adaptor in the device manager.

The driver for the adaptor is corrupted and it needs to be removed and installed manually. Follow the steps below to remove and install the drivers for the device.

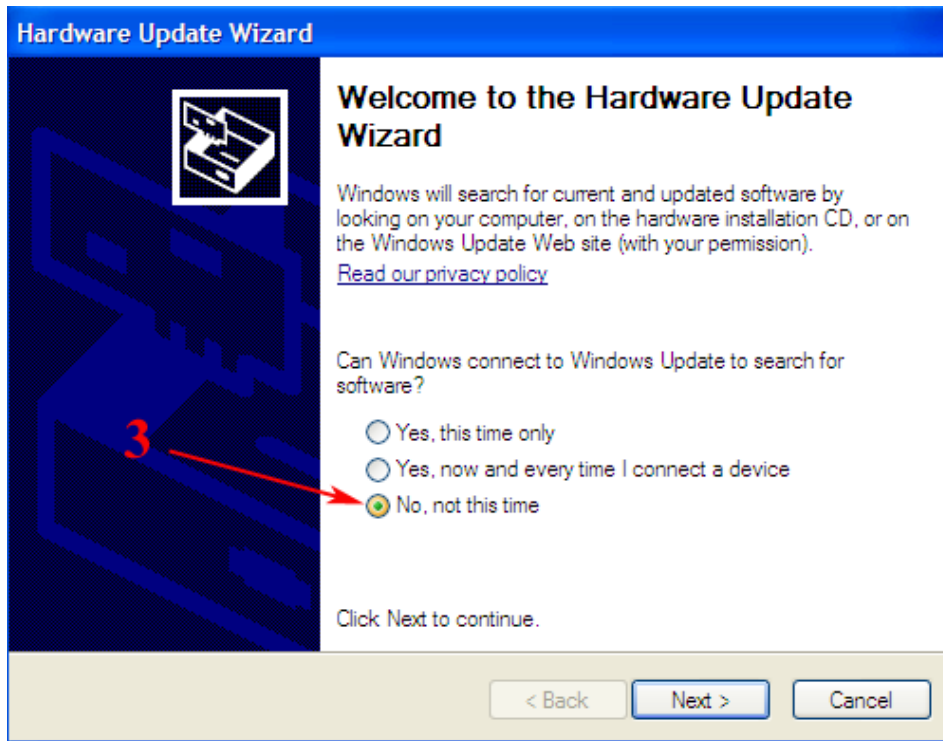
Note: The steps were compiled for a Windows XP operating system. Windows 7/Windows Vista may not be exactly the same.

Manual Driver Install (EDV3150 USB-to-Serial Adaptor)

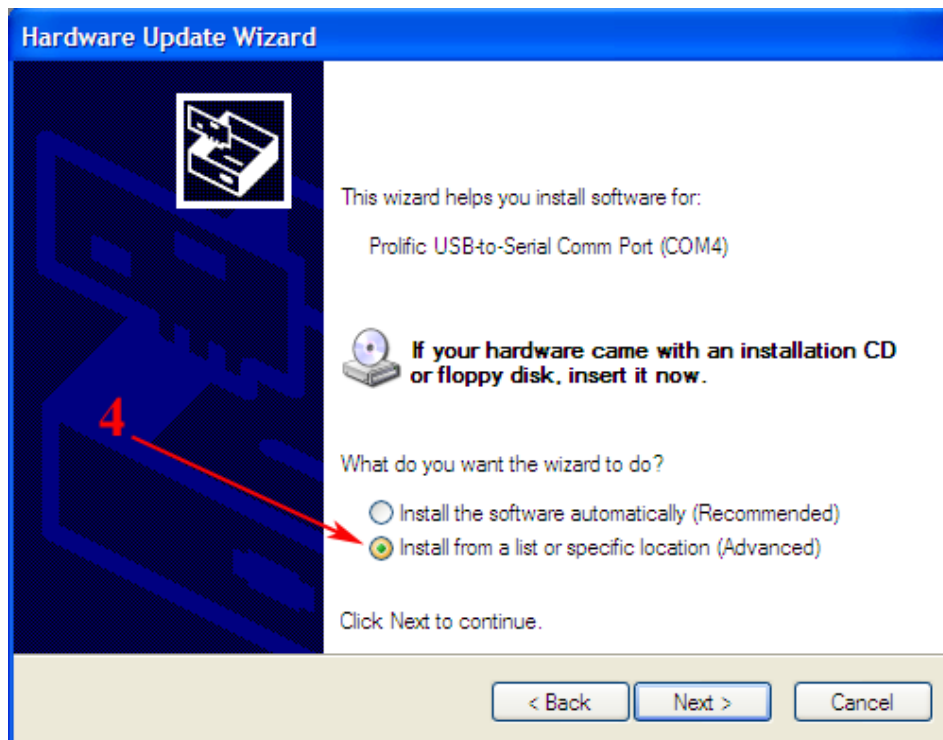
1. Locate and download the Prolific USB-to-Serial drivers (EDI model number: EDV3150)
 - A. They are located at <http://www.electronicdisplays.com/> → Support → Downloads → Driver Downloads.
Titled: "EDV3150 USB To Serial Adapter Driver"
 - B. Download attachment: [prolific 2303 usb to serial driver \(old version\).zip](#)
2. Extract the contents of the .zip file to a new folder.
3. Execute the "DRemover98_2K.exe" to remove any previous unsuccessful installs of drivers.
 - A. Restart if prompted.
4. Disconnect the serial-to-USB adaptor and reconnect it to the display.
5. Go to the **Device Manager** and follow these steps:
 - A. Locate the adaptor in the device manager, right click and select **Update Driver**. May be listed in the 'Ports (Com & LPT)' or 'Other devices' section.



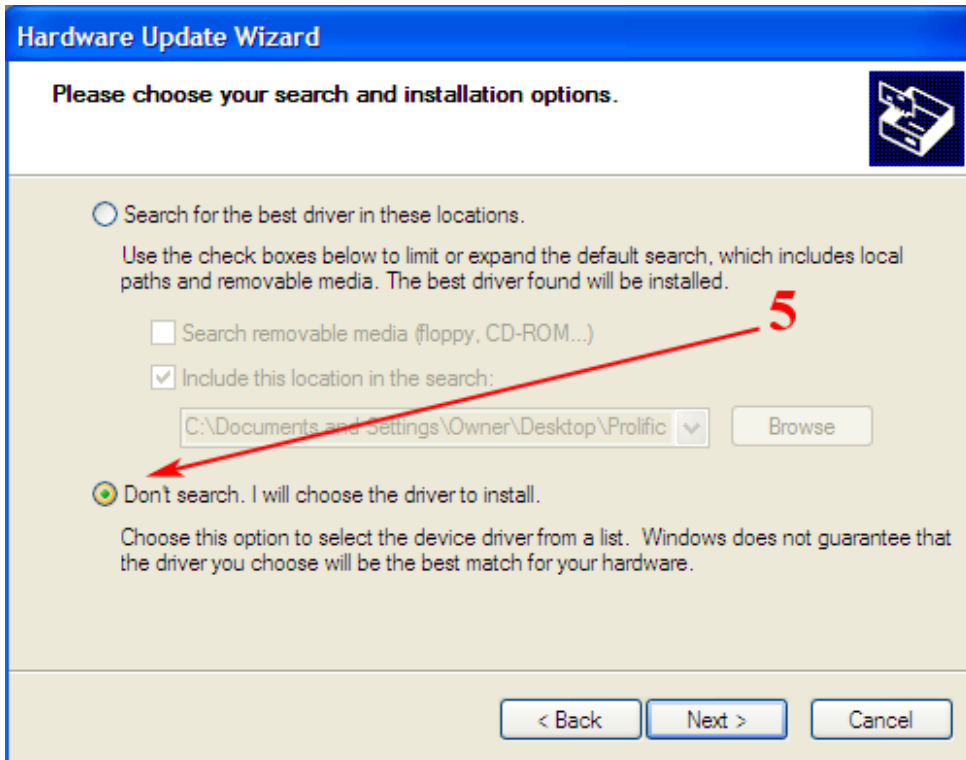
- B. Select 'No, not this time' in the hardware Update Wizard and click **Next**.



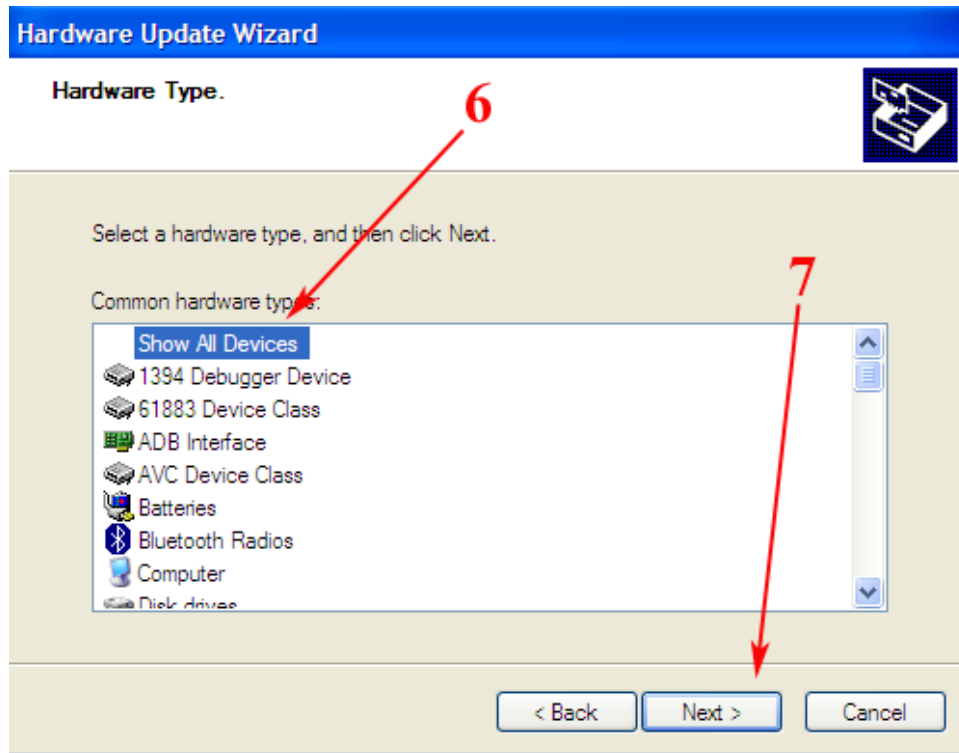
- C. Select 'Install from a list or specific location (Advanced)' and click **Next**



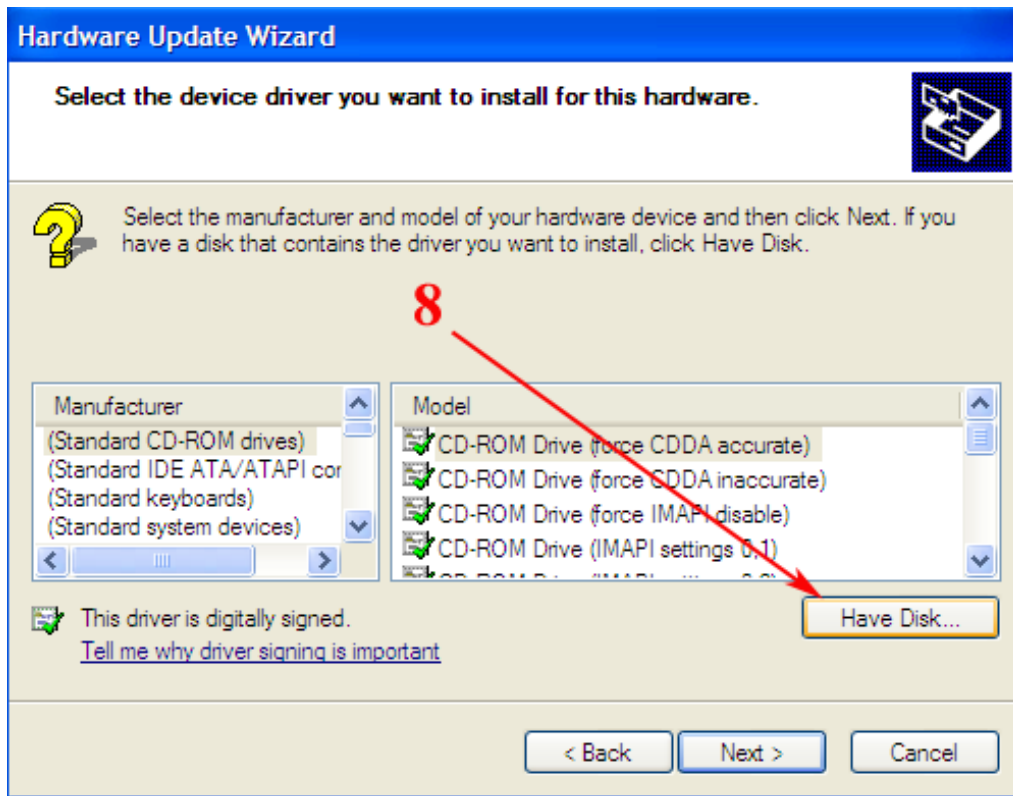
D. Select 'Don't search. I will choose the driver to install.' and click **Next**.



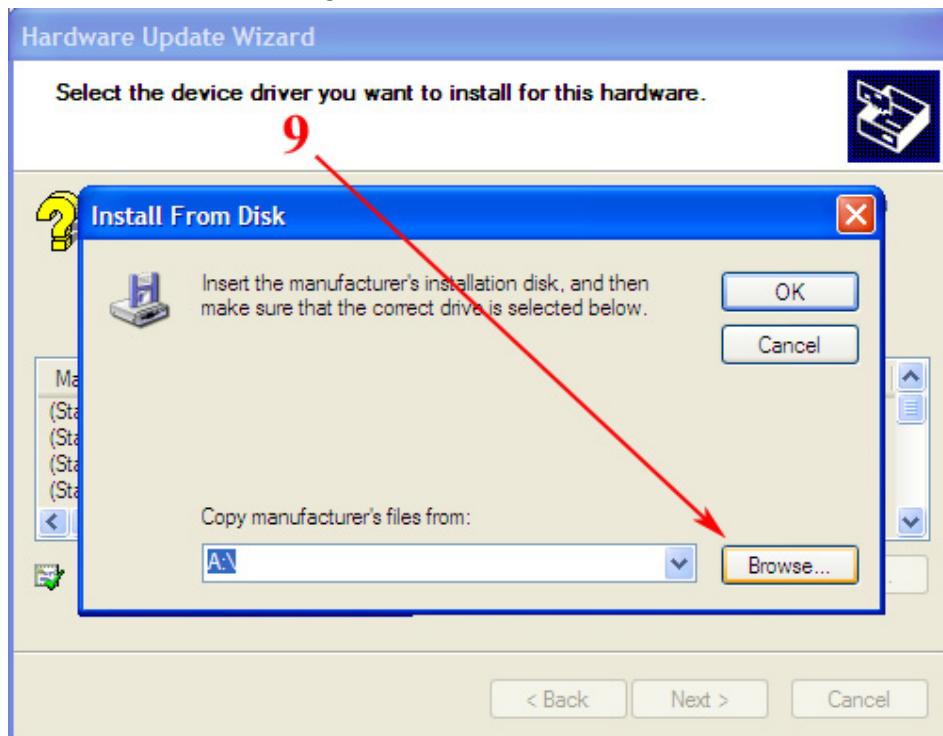
E. Highlight 'Show All Devices' and click **Next**.



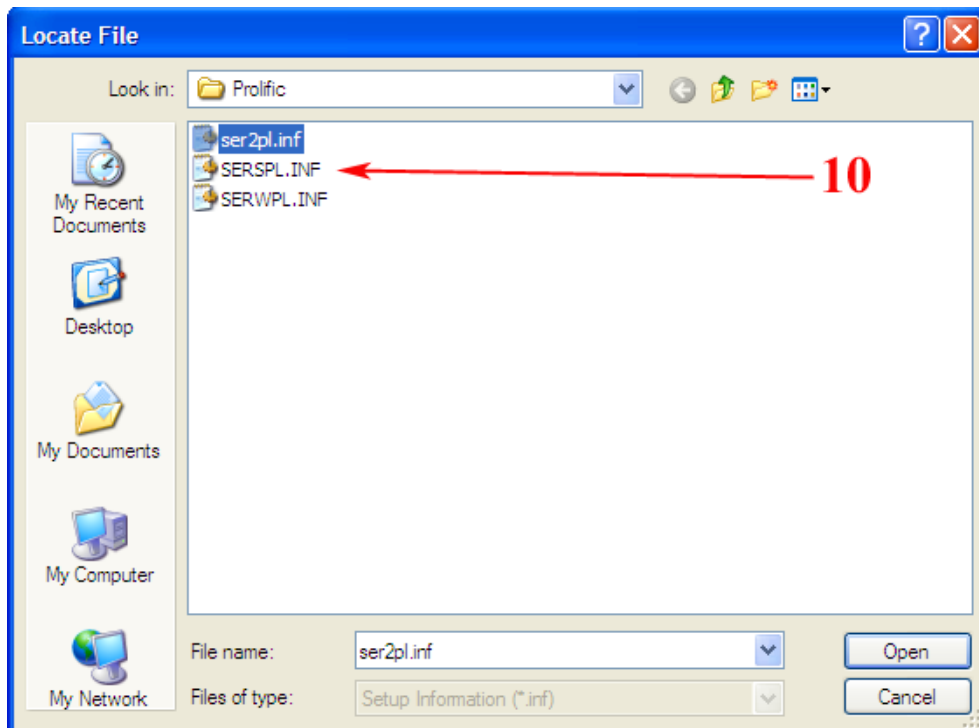
F. Select **Have Disk**



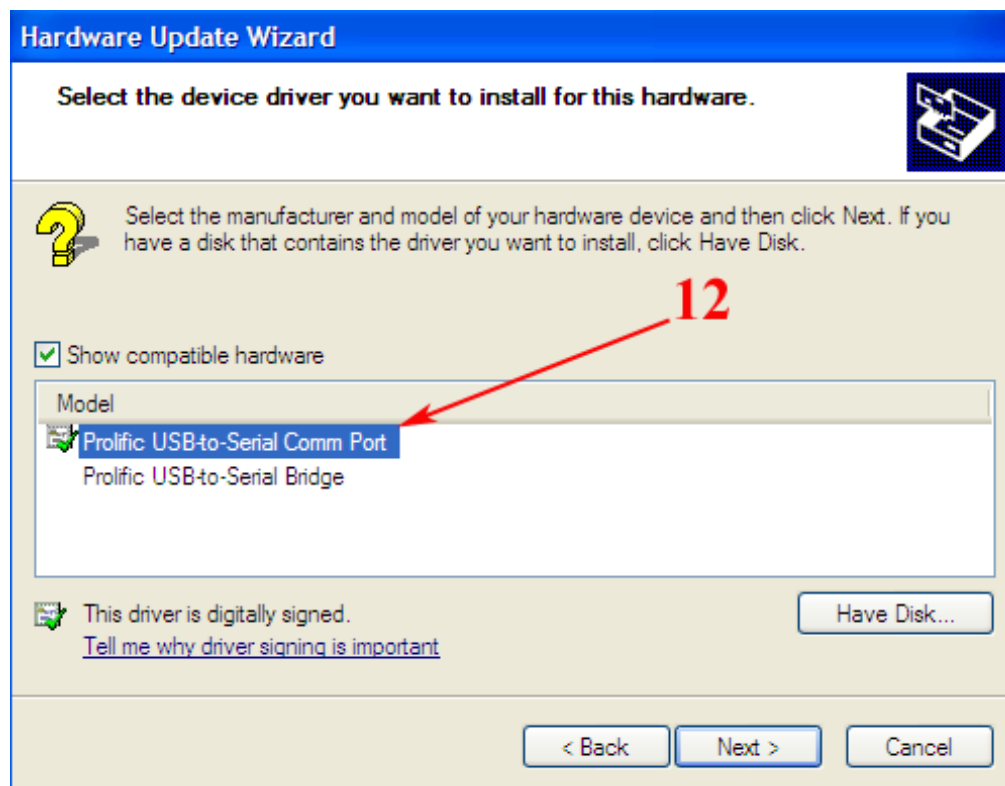
G. Select **Browse** and navigate to the new folder that the drivers were extracted to.



H. Select **SERSPL.INF** from the directory and click **Open**



I. Highlight the model listing that is 'digitally signed' (Has icon to the left of it) and click **Next**.



- J. The wizard will now install the drivers, if a prompt asks to install the driver select 'Continue Anyway' and wait for it to install. Once complete, the Prolific Serial-to-USB adaptor will be listed in the 'Ports' section of Device Manager.

Note: If there is a '!' icon next to the listing in the Device Manager, it means that there is still a driver issue with the adaptor. Repeat the steps in the guide and select a different .INF file in step H until the icon does not appear.

Notes #2: If a Serial-to-USB cable is being used that is not purchased from Electronic Displays, the same procedure can be followed to manually install the drivers for the adaptor as long as you can locate the .INF for the drivers. They are typically in the same folder as the executable setup is for the driver, or listed on manufacturer's website a driver for 'Advanced Users.'

6. **I followed all the steps listed, but am still unable to communicate with the display.**
Contact Electronic Displays Incorporated for technical support.

Electronic Displays Incorporated (EDI) Contact Information

Electronic Displays Incorporated (EDI) website: <https://www.electronicdisplays.com/>

Technical Support Hotline: 630-628-0658

Hours: 8:00 AM – 4:00 PM (Central US: UTC-6:00)

Monday – Friday