



USER MANUAL

Elo Touch Solutions

3200L 32" Interactive Digital Signage Touchmonitor
4200L 42" Interactive Digital Signage Touchmonitor
4600L 46" Interactive Digital Signage Touchmonitor
5500L 55" Interactive Digital Signage Touchmonitor
Interactive Digital Signage Computer Module

SW601176 Rev F

Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

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Chapter 1 - Introduction

Product Description

Your new Interactive Digital Signage Touchmonitor combines Elo Touch Solutions reliable performance with the latest developments in touchscreen technology and display design. This combination of features creates a natural flow of information between a user and the touchmonitor.

This touchmonitor incorporates a 24-bit color, active matrix thin-film-transistor, digital signage LCD panel to provide superior display performance. Its Full HD resolution of 1920x1080 is suitable for displaying graphics and images (the 32" model's resolution is 1366x768). Other features that enhance this LCD monitor's performance are Plug & Play compatibility, built-in speakers and headphone output capability, on screen display (OSD) controls, and a family of Digital Signage Computer Modules.

The Computer Modules are designed to slide into a bay on the rear of the monitor, without any effect on the monitor's form factor or requiring any extra cabling, turning your Interactive Digital Signage TouchMonitor into an Interactive Digital Signage All-In-One TouchComputer.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit and prevent risks to user safety. See Chapter 8 for more information on touchmonitor safety.

For your health and safety, it is strongly recommended that at least two people handle, lift, or move these touchmonitors. Handles are provided on the unit's back for easier handling.

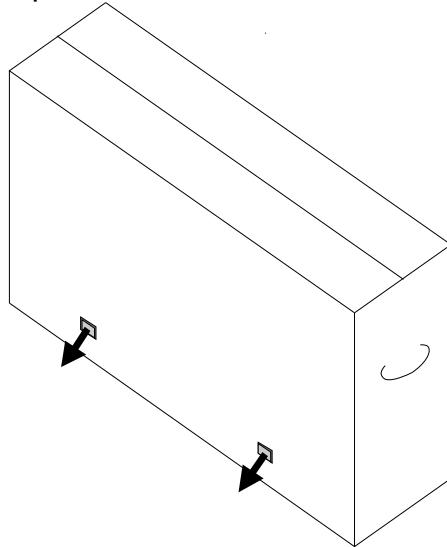
This manual contains information that is important for the proper setup and maintenance of the Interactive Digital Signage Touchmonitor and optional Computer Module. Before setting up and powering on your new touchmonitor and computer module, read through this manual, especially the Installation, Mounting, and Operation chapters.

Chapter 2 – Unpacking

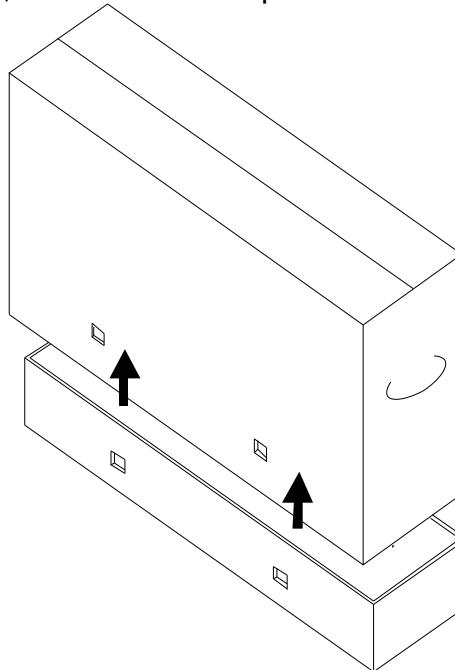
Unpacking the Touchmonitor

To unpack the touchmonitor, follow these steps:

1. The carton should be oriented in the manner according to its labeling. The hinged plastic locks should be at the 'bottom'.
2. Open and remove all 4 hinged plastic locks.



3. Once the locks are removed, lift the carton's top lid off the bottom frame.



4. With the top lid removed, you now have access to the touchmonitor and the included accessories.

Note: For your health and safety, it is strongly recommended that at least two people handle, lift, or move these touchmonitors. Handles are provided on the unit's back for easier handling.

Check that the following items are present and in good condition:

- Touchmonitor
- CDs
 - TouchTools
 - User Manuals
- Quick Install Guide
- Cables
 - HDMI, VGA, USB, null modem serial, audio, North America power, Europe/Korea power, U.K. power, Argentina power, Taiwan power, China power, Korea power, Japan power, & Japan 3pin-2pin adapter
- Screws to secure cable covers

Unpacking The Digital Signage Computer Module

Open the box.

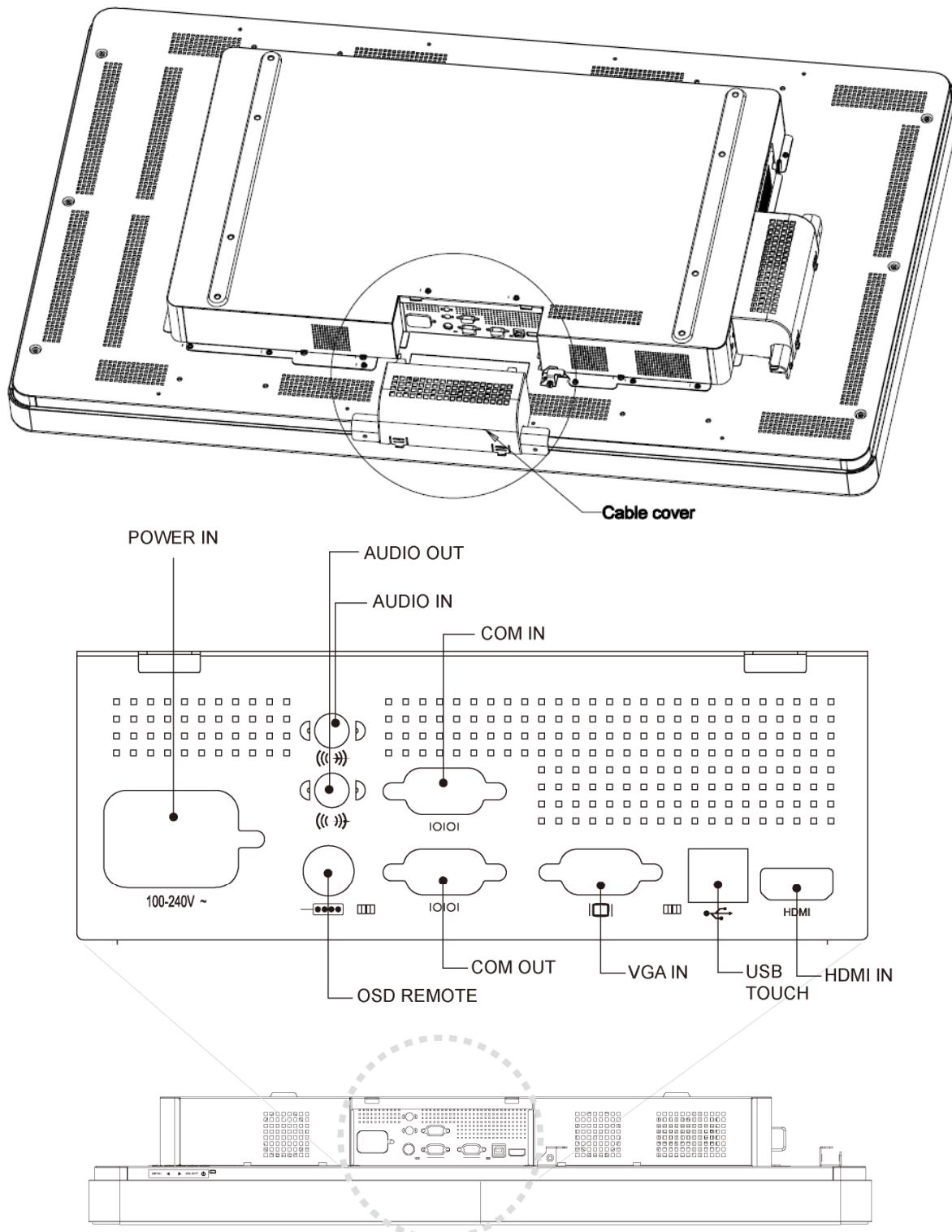
Check that the following items are present and in good condition:

- Digital Signage Computer Module
- Quick Install Guide
- (If Applicable) Windows Recovery Discs

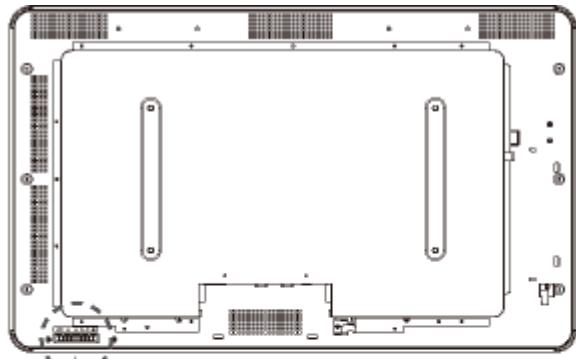
Chapter 3 - Touchmonitor Installation

Connector Panel & Interfaces

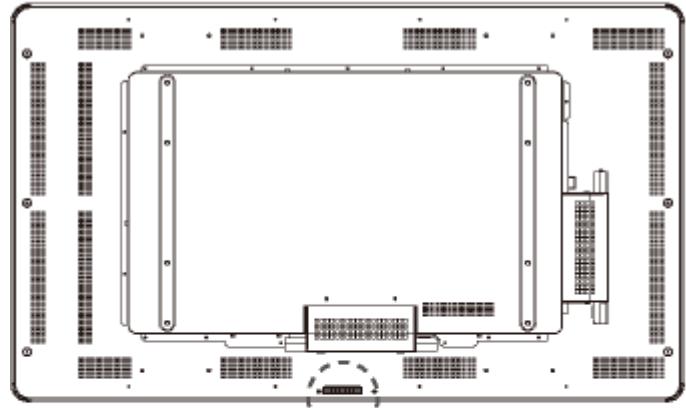
Remove the cable cover on the bottom rear (when viewed in landscape orientation) to access the touchmonitor's connector panel.



3200L



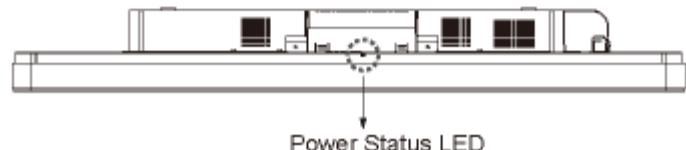
4200L / 4600L / 5500L



OSD/Power button



Power Status LED



Power Status LED

Touchmonitor Connections

1. Connect the HDMI and/or VGA video cables between the monitor's HDMI/VGA input connectors and your HDMI/VGA video source, respectively. Tighten the VGA cable's screws for best EMI performance and strain relief.
2. Connect the USB touch cable between the monitor's USB connector and the PC's USB port.
3. Connect the audio cable between the monitor's Audio In jack and your audio source.
4. Select the correct power cable for your region. Connect it between the AC power source and the touchmonitor's POWER IN connector.
5. Replace the cable cover, if desired.
6. The touchmonitor ships in an OFF state. Press the power button to turn it on.

Installing the APR or IntelliTouch Touchscreen Technology Software Drivers

Some software installation is required for your IntelliTouch touchmonitor to work with your computer.

Note: no software installation is required for optical touch touchmonitors.

The drivers for the Windows 7, XP, Vista, WePOS, and 32-bit Server 2003 operating systems are provided with your touchmonitor on a CD.

Visit the Elo Touch Solutions website www.elotouch.com for:

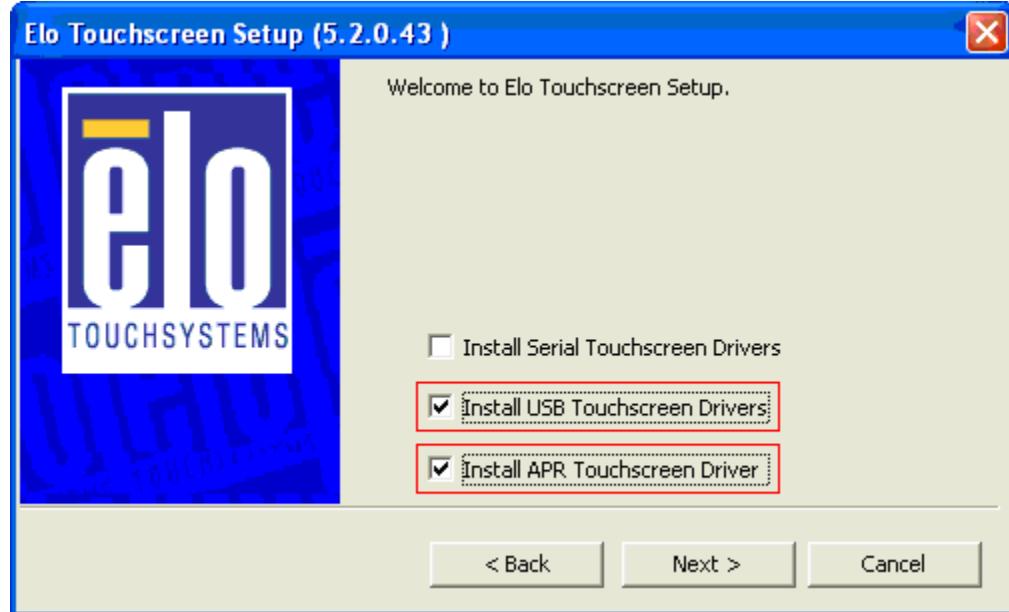
- The most up-to-date touch driver versions
- Additional touch driver information
- Detailed touch driver installation guides
- Touch drivers for other operating systems

Insert the Elo TouchTools CD into your computer's CD-ROM drive. The CD should automatically run the Elo TouchTools application. Select "Install Driver for This computer":

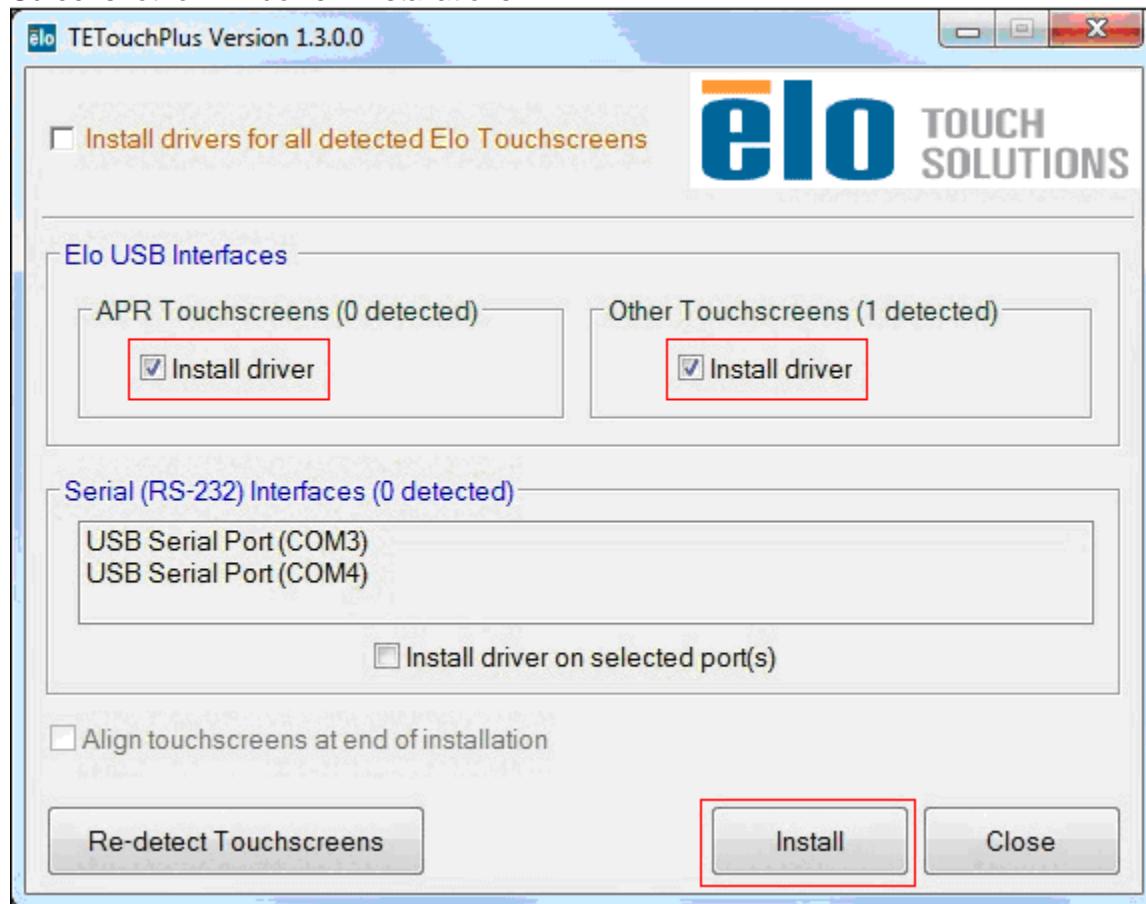


Install both the “USB Touchscreen Drivers” and “APR Touchscreen Driver” when prompted:

Screenshot for Windows XP, Vista, Server 2003, Server 2008, and WEPOS installations:



Screenshot for Windows 7 installations:



After accepting the end-user license agreement, the drivers will finish installing.
Reboot your computer after the install is complete.

Chapter 4

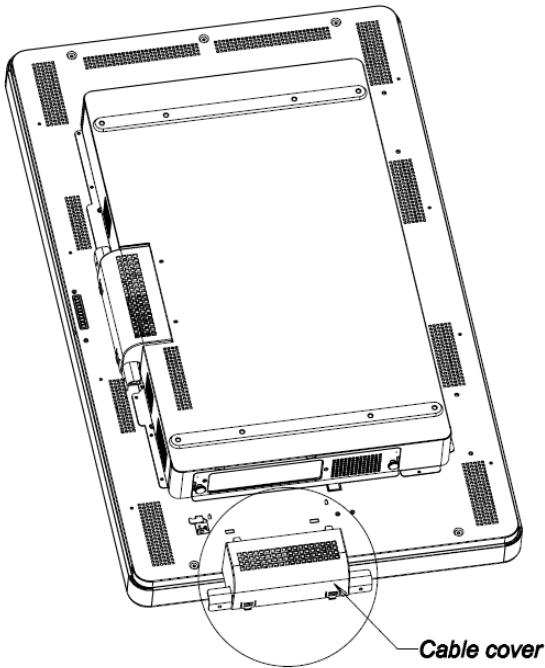
Computer Module Installation

Installation

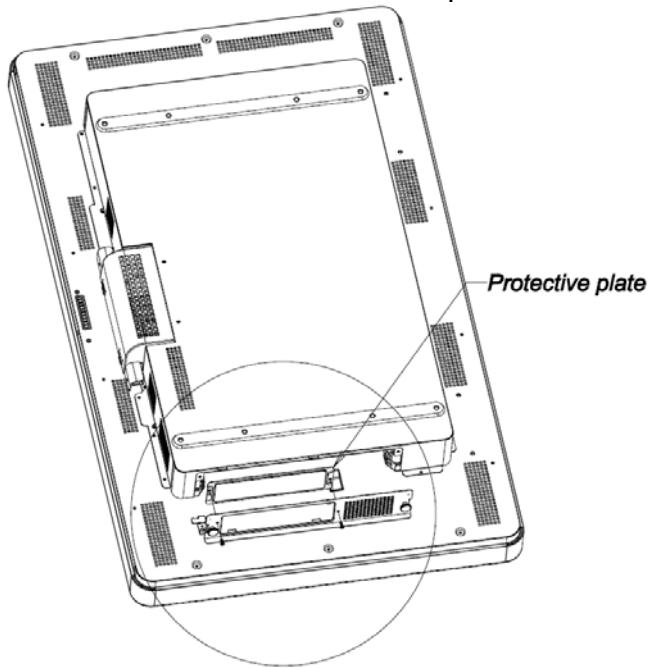
Note:

Disconnect AC power from the touchmonitor before installing the Computer Module. Installing the Computer Module while AC power is connected to the touchmonitor will damage the Computer Module.

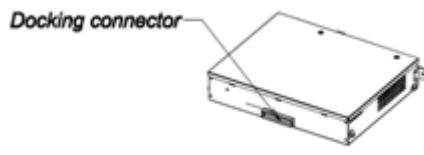
1. Disconnect AC power from the touchmonitor.
2. Remove the cable cover on the side of the touchmonitor (when viewed in landscape orientation) to access the Computer Module bay.



3. Use a Phillips head screwdriver to remove the Computer Module bay's protective plate.

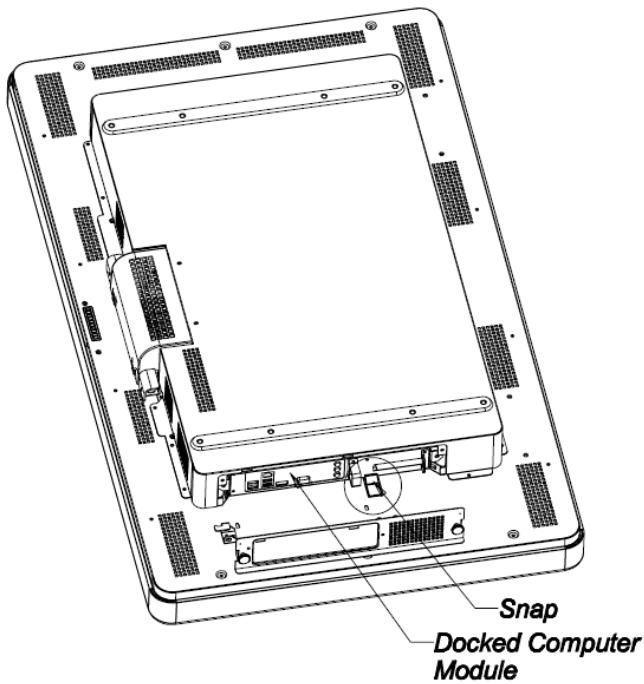


4. Clear the Computer Module's docking connector of any debris that may have accumulated during shipment, if necessary.



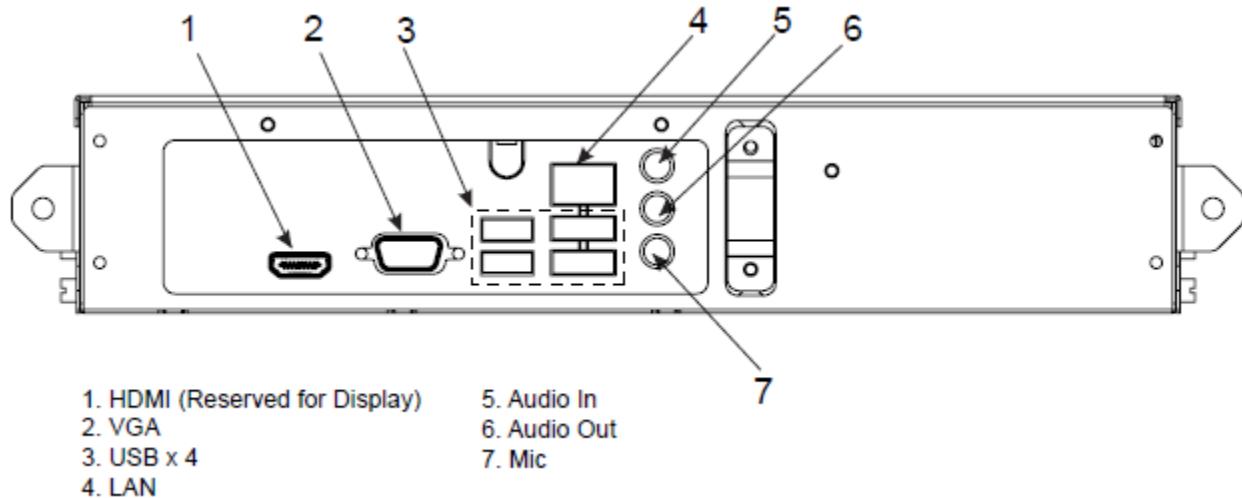
PCBOX BACK VIEW

5. Slide the Computer Module all the way into the bay until it snaps into place



6. Replace the protective plate and tighten its thumb screws in order to mechanically secure the computer module.

Connector Panel & Interfaces



Touchmonitor & Computer Module Connections

1. Once the Computer Module has been installed, connect the AC power cable between the touchmonitor's POWER IN connector and the AC power source.
2. Make any desired connections to the Computer Module connector panel.
3. Press and hold the touchmonitor's power button for 4 seconds to turn on the Computer Module.

Note:

Once the Elo Computer Module is installed in the touchmonitor, the touchmonitor's VGA & HDMI video and USB touch functions are disabled. All of the touchmonitor's video and touch functionality is handled through the Computer Module docking connection.

Operating System Setup

Windows® 7, Windows® XP Operating Systems

The initial setup of the operating system takes approximately 5 minutes. Additional time might be needed for different touchcomputer hardware and operating system configurations. You will need to plug in an external mouse and/or keyboard into the Computer Module connector panel to execute these steps.

To set up the Windows 7 or XP OS for the Computer Module, turn on the touchcomputer and follow the instructions on the screen.

Selecting the Language

Windows uses English as the default language in menus and dialog boxes. You can change this language to suit your preference.



Click Customize. The “Regional and Language Options” window appears. Select the Languages tab. If required, check the boxes for “Install files for complex script and right-to-left languages” and “Install files for East Asian languages.”



Select the “Regional Options” tab. Select your preferred language from the drop-down list in the Standards and Formats pane.



Select your location from the drop-down list in the Locations pane. Click Apply, and then OK.



Choosing the computer name (Windows 7 setup only)

You will be prompted to enter the computer's name.

Choosing the Windows Update settings (Windows 7 setup only)

You will be prompted to select the Windows Update settings.

Selecting the Time Zone

When the following window appears, you can change the Computer Module's time zone, date, and time. After making any changes, click Next to finish. Windows Setup completes the OS installation.



Installing the Touchscreen Technology Software Drivers for Elo Computer Modules with Windows XP

Visit the Elo Touch Solutions website www.elotouch.com for:

- The latest touch driver versions
- Additional touch driver information
- Detailed touch driver installation guides
- Touch drivers for other operating systems

No installation needed; the Computer Module comes with all required drivers for APR and IntelliTouch technologies.

Installing the Touchscreen Technology Software Drivers for Elo Computer Modules with Windows 7

Visit the Elo Touch Solutions website www.elotouch.com for:

- The latest touch driver versions
- Additional touch driver information
- Detailed touch driver installation guides
- Touch drivers for other operating systems

For APR and IntelliTouch monitors no installation is required; the Computer Module comes with all required drivers.

For IntelliTouch Plus monitors, further installation is required. Download and install the Windows 7 multi-touch driver from the Elo Touch Solutions website www.elotouch.com

Operating System Setup – No OS

Load your desired operating system onto the Computer Module. The easiest way to do this will probably be using an image or recovery disk on a USB external DVD-ROM drive connected to the Computer Module.

Cancel any attempts by your operating system to load drivers for the new USB device (the Elo touchscreen) it finds.

Installing the Touchscreen Technology Software Drivers for Elo Computer Modules with No OS

Visit the Elo Touch Solutions website www.elotouch.com for:

- The latest versions of our touch drivers
- Additional touch driver information
- Detailed touch driver installation guides
- Touch drivers for other operating systems

Download and install the required touch driver from the Elo Touch Solutions website www.elotouch.com. Refer to instructions in Chapter 3.

Chapter 5 – Mounting

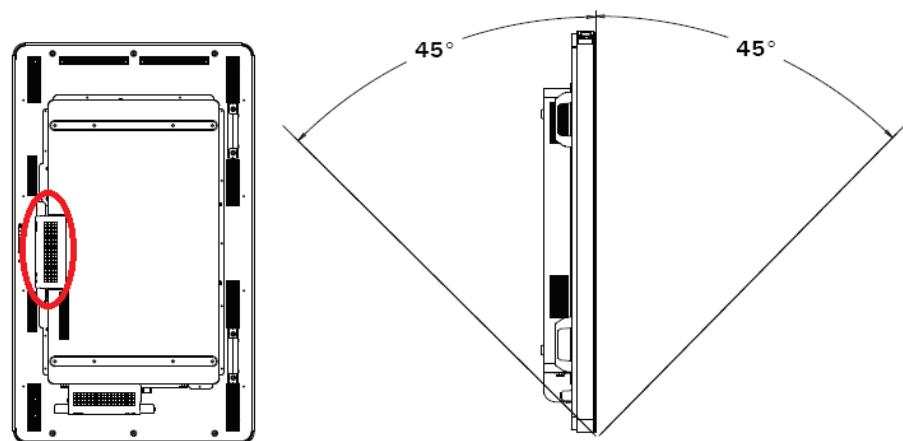
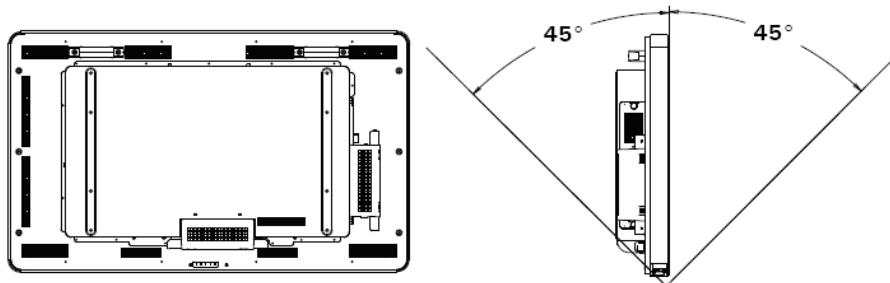
Note: For your health and safety, it is strongly recommended that at least two people handle, lift, or move these touchmonitors. Two handles are provided on the unit's back for easier handling.

Note: When laying the display face-down (for attaching mounting brackets or stands), protect the glass on the face from scratching and damage. Lay the display on a non-abrasive surface, or first protect the display face with film or foam.

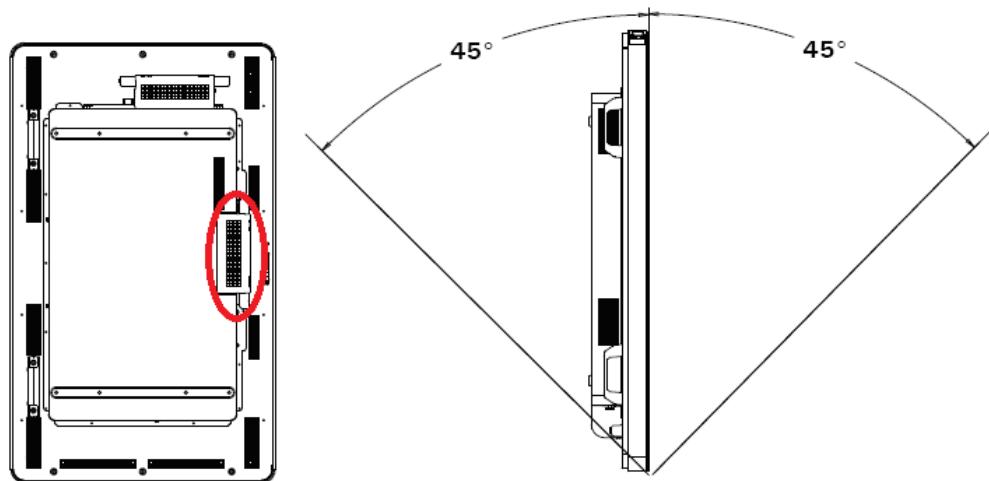
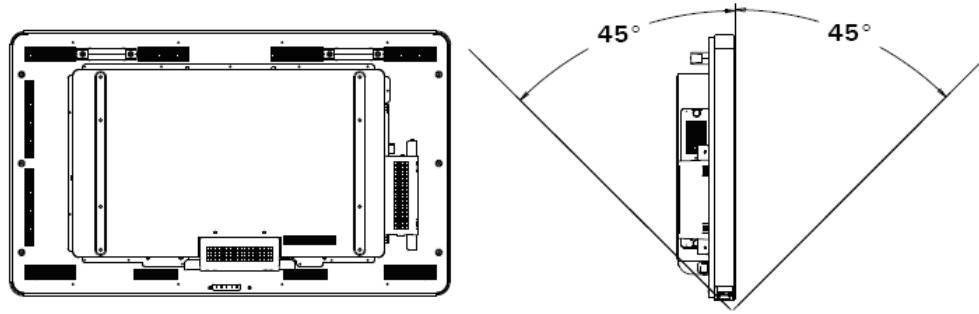
General Mounting Information

Two mounting orientations are supported with limited range of tilt: Landscape and Portrait.

3200L / 4200L / 4600L:



5500L:



Rear VESA Mount

For the 32" model:

A four-hole, 400x200mm mounting pattern is provided on the rear of the monitor.
The VESA FDMI-compliant mounting is coded: VESA MIS-F, 400X200, Y, 6, 90

For the 42", 46", and 55" models:

An eight-hole, 600x400mm mounting pattern is provided on the rear of the monitor.
The VESA FDMI-compliant mounting is coded: VESA MIS-F, 600X400, Y, 6, 90

Refer to www.elotouch.com for dimensional drawings.

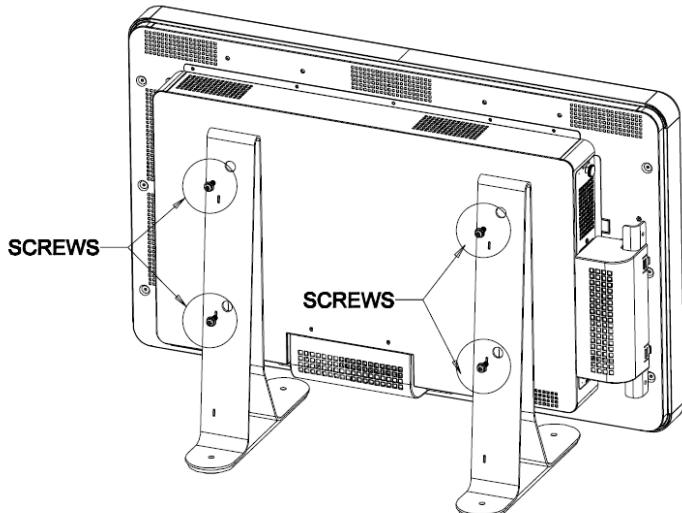
Optional Stand

To install the optional stand:

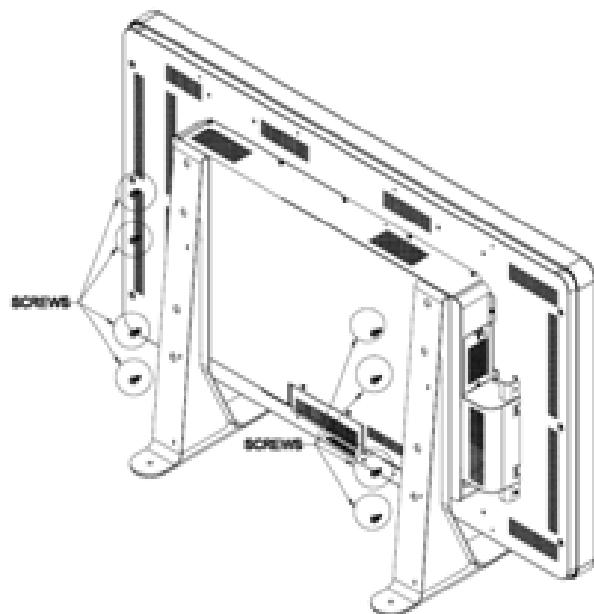
Lay the monitor face-down on a table with the bottom edge flush to the edge of the table.

Mount the two “feet” from the optional stand using all of the provided screws.

3200L



4200L / 4600L / 5500L



Chapter 6 – Operation

Power

To turn the touchmonitor on or off, press the touchmonitor power button once.

To power on the Computer Module, press the touchmonitor power button once.

To power off the Computer Module and touchmonitor, press and hold the touchmonitor power button for 4 seconds, or follow the Computer Module's operating system's normal power off procedure.

A Power Status LED is provided that functions according to the following table:

Touchmonitor/Computer Module status	LED status
OFF	OFF
SLEEP	BLINKING
ON	ON

The system consumes low power when in SLEEP and OFF modes. For detailed power consumption specifications, refer to technical specifications on the Elo website www.elotouch.com.

Touching the screen will bring the system out of SLEEP mode (similar to moving the mouse or pressing a keyboard key).

To improve reliability and reduce wasteful power consumption, disconnect the AC power cable when long periods of disuse are planned.

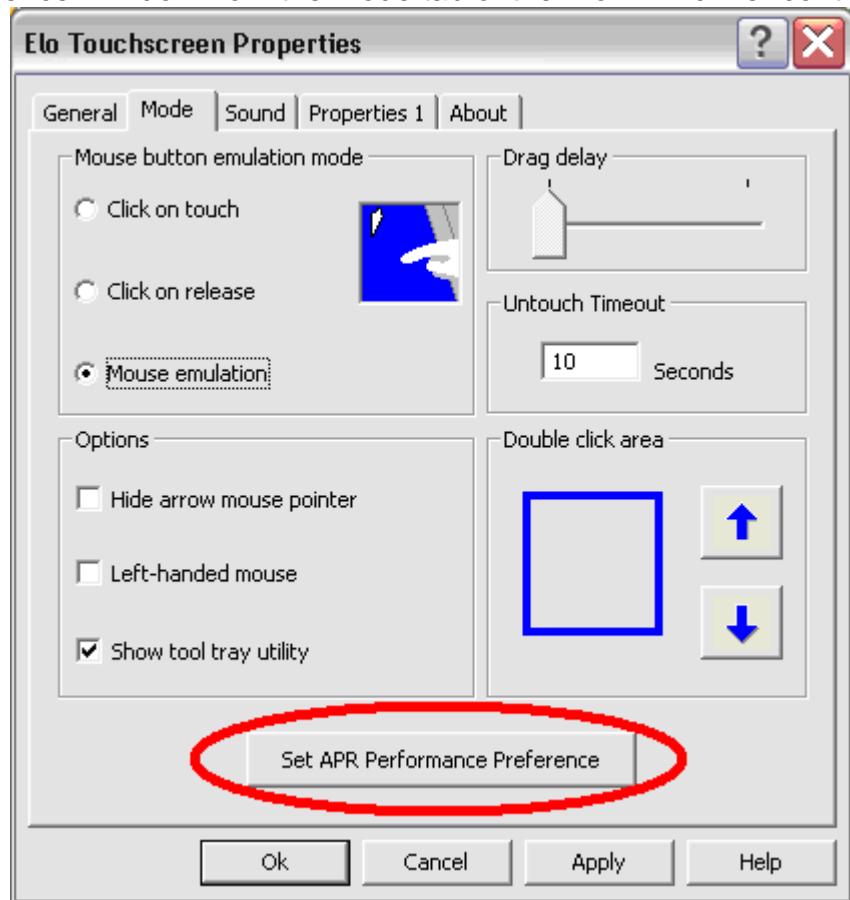
APR Touchscreen Technology

Multiple touchmonitor functionality is not supported for these APR touchmonitors.

For full APR touch functionality, the input video image should be fully scaled to the display's native resolution.

Your APR touchmonitor is factory-calibrated and will never need manual calibration.

The APR performance can be customized to better suit your application. Access the "Set APR Preference" window from the Mode tab of the Elo APR driver control panel:



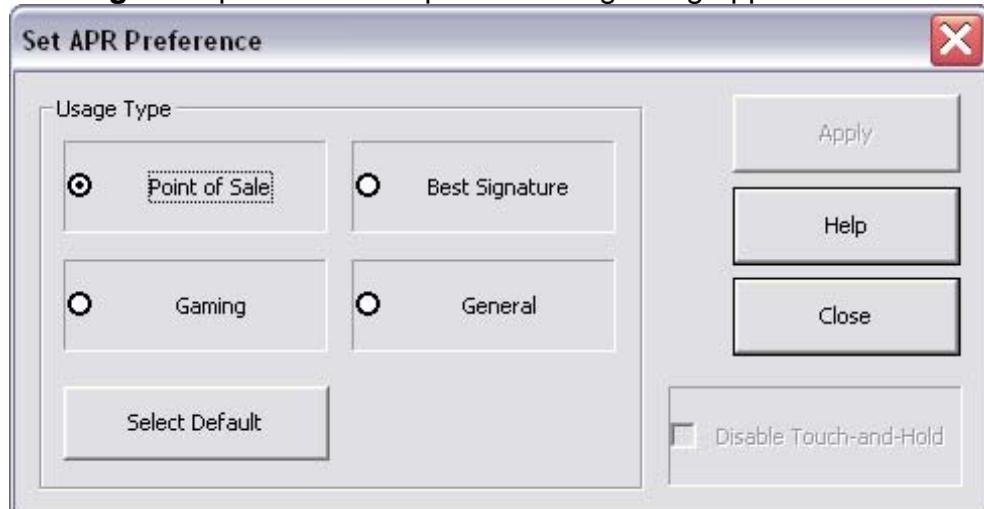
Select the usage type best suited for your application, then press Apply.

General: No particular optimization (default)

Best Signature: APR performance optimized for signature capture applications

Point of Sale: APR performance optimized for Point-of-Sale applications

Gaming: APR performance optimized for gaming applications



IntelliTouch Touchscreen Technology

The IntelliTouch touchscreen can be re-calibrated to your displayed video image, if needed, through the Calibration function in the Elo driver control panel.

Optical Touchscreen Technology

When connected to Windows 7 computers, the touchmonitor can report 4 simultaneous touches.

When connected to Windows XP computers, the touchmonitor reports single touches.

No additional drivers are required for this technology to work, it uses Windows HID drivers. No calibration is required for this technology.

Video

An LCD panel's native resolution is its width and height measured in number of pixels.

In almost all cases, an image displayed on an LCD monitor will look best when your computer's output resolution matches the LCD panel's native resolution. See the display specifications on the Elo website www.elotouch.com to find your touchmonitor's native resolution. Operating in other resolutions will degrade video performance.

For computer output resolutions at non-native resolutions, the monitor will scale the video to its panel's native resolution. For smaller input video resolutions, this involves "stretching" the input image in the X- and Y-dimensions to fit the panel. For larger input video resolutions, this involves "compressing" the input image in the X- and Y-dimensions to fit the panel. An unavoidable byproduct of the scaling algorithms is a loss of fidelity when the computer's output video image is scaled by the monitor to fit the display. This loss of fidelity is most apparent when viewing feature-rich images at close distances (for example images containing small-font text).

For full APR touch functionality, the input video image should be fully scaled to the display's native resolution.

Your touchmonitor will likely not require video adjustments. However, for analog VGA video, variations in video graphic card outputs may require touchmonitor adjustments through the OSD to optimize the quality of the touchmonitor's displayed image. Also, to reduce the need for adjustments for different video mode timings, the monitor correctly scales and displays some of the video industry's most common video timing modes.

On-Screen Display (OSD)

Four OSD buttons are provided on the rear of the monitor to adjust various display parameters. The same buttons are provided on an optional OSD Control Box which can plug into the PS/2 connector on the touchmonitor connector panel.



The buttons and their functionality are:

Button	Function when OSD is not displayed:	Function when OSD is displayed:
Menu	Display OSD main menu	Return to previous OSD menu
<	Display OSD Color/Luminance submenu	Increase value of selected parameter / select previous menu item
>	Display OSD Audio submenu	Decrease value of selected parameter / select next menu item
Select	Display Video Source submenu	Select parameter for adjustment / select submenu to enter

Using the OSD buttons controls an on-screen graphical user interface which displays on top of your input video, allowing intuitive adjustment of the following display parameters:

Parameter	Available Adjustment
Brightness	Increase/decrease monitor brightness. Default: maximum
Contrast	Increase/decrease monitor contrast.
Clock	Allows fine adjustments of the panel's pixel dot clock. <i>Not applicable when using HDMI video or the Computer Module.</i> <i>Adjusting too far will adversely affect APR functionality.</i>
Phase	Allows fine adjustments of the panel's pixel dot clock phase. <i>Not applicable when using HDMI video or the Computer Module.</i> <i>Adjusting too far will adversely affect APR functionality.</i>
Auto Adjust	Automatically adjusts the system clock to the input analog VGA video signal, affecting the H-position, V-position, Clock, and Phase menu items. <i>Not applicable when using HDMI video or the Computer Module.</i> <i>Adjusting too far will adversely affect APR functionality.</i>
H-position	Moves the image horizontally on the display in single-pixel increments. Default: centered. <i>Not applicable when using HDMI video or the Computer Module.</i> <i>Adjusting too far will adversely affect APR functionality.</i>
V-position	Moves the image vertically on the display in single-pixel increments. Default: centered. <i>Not applicable when using HDMI video or the Computer Module.</i> <i>Adjusting too far will adversely affect APR functionality.</i>

Maintain Aspect Ratio	Switches the scaling method between Full Scaling and Maintain Aspect Ratio. Default: Full Scaling Full Scaling – scales the X- and Y-dimensions of the input video (up or down as needed) to the display's native resolution. Maintain Aspect Ratio – Assuming a landscape orientation and an input video with aspect ratio smaller than 16:9, scales the Y-dimension of the input video (up or down as needed) to the display's Y-resolution, and scales the X-dimension to maintain the input video's aspect ratio (and fills the rest of the display with equal black bars on the left and right). <i>Note: For full APR touch functionality, keep this setting on "Full Scaling".</i>
Sharpness	Adjusts sharpness of the displayed images. Default: no sharpness adjustment
Color Temperature	Selects the display's color temperature. The available color temperatures are 9300K, 7500K, 6500K, 5500K, and User Defined. If the User Defined option is selected, the user can change the color temperature by changing individual R, G, and B gains on a scale from 0 to 100. Default: User Defined with R, G, and B all set to 100.
OSD Timeout	Adjusts how long a period of OSD button inactivity the touchmonitor will wait before closing the OSD. The adjustable range is between 5 and 60 seconds. Default: 15 seconds
OSD Language	Selects which language the OSD information is displayed in. The available languages are: English, French, Italian, German, Spanish, Simplified Chinese, Traditional Chinese, and Japanese. Default: English.
Mounting	Adjusts the rotation of the OSD text to match the physical mounting orientation. Default: Landscape
OSD H-Position	Moves the OSD location left and right on the display. Default: 50 (centered)
OSD V-position	Moves the OSD location up and down on the display. Default: 50 (centered)
Volume	Adjusts the volume of the internal speakers and headphone output.
Mute	Toggles the audio output between Muted and Not Muted. Default: Not Muted
Information	Displays basic monitor part number and serial number information. Nothing is adjustable in this menu.
Recall Defaults	Selecting "Recall Defaults" restores all factory default settings for OSD-adjustable parameters (except OSD Language and OSD Position) and for Preset Video Mode timings.

Video Source	<p>The monitor continually scans for active video from VGA, HDMI, and the Computer Module. This adjustment selects which of those input ports should be given priority to be displayed.</p> <p>If there is no Computer Module plugged in, the options are: VGA Priority, HDMI Priority Default: HDMI Priority</p> <p><i>When a Computer Module is plugged in, Computer Module HDMI is the only displayable video source, and this adjustment is not available.</i></p>
Audio Source	<p>Selects which audio source is heard over the monitor's speakers or headphone output.</p> <p>If there is no Computer Module plugged in, and the video source is HDMI, the options are: Line In and HDMI. Default: Line In.</p> <p>If there is no Computer Module plugged in, and the video source is VGA, the only option is Line In.</p> <p>If a Computer Module is plugged in (and therefore the input video is Computer Module HDMI), the options are: Elo Computer Module HDMI, Elo Computer Module Line In, and Line In. Default: Elo Computer Module HDMI.</p>
ECM MDC	<p>For situations in which multiple IDS+ECM Computer Module systems are daisy-chained for MDC functionality, this option selects whether the system is the master or one of the slaves of the daisy-chain.</p> <p>The options are: Master, Slave Default: Master</p> <p><i>Note: This option only available when the ECM Computer Module is plugged in.</i></p>

All touchmonitor adjustments made through the OSD are automatically memorized as soon as they are entered. This feature saves you from having to reset your choices every time the touchmonitor is unplugged or powered off and on. If there is a power failure, the touchmonitor settings will not default to the factory specifications.

OSD and Power Lockouts

Press and hold the “Menu” and “Up” buttons for two seconds to enable/disable the OSD Locking feature. When the OSD Locking is enabled, pressing any of the Menu, Up, Down, or Select keys will have no effect on the system.

Press and hold the “Menu” and “Down” buttons for two seconds to enable/disable the Power Locking feature. When the Power Locking is enabled, pressing the power switch will have no effect on the system.

Audio

Audio from the touchmonitor Line In, touchmonitor HDMI, Computer Module Line In, or Computer Module HDMI ports can be played over the touchmonitor’s internal speakers. See the “Audio Source” OSD parameter for details. When headphones are plugged into the headphone output jack, the internal speakers turn off and audio is played over the headphones.

Volume and muting of the speaker and headphone outputs can be controlled by the OSD.

Chapter 7 – Technical Support

If you are experiencing trouble with your touchmonitor, refer to the following suggestions. If the problem persists, please contact your local dealer or contact Elo Touch Solutions Customer Service.

Solutions to Common Problems

Problem	Suggested Troubleshooting
The touchmonitor does not respond when turning on the system.	Check that the AC power cable is properly connected. Verify the AC power source is functioning.
The Computer Module does not respond when turning on the system.	Disconnect the AC power cable and verify that the Computer Module is properly installed. Reconnect the AC power cable.
Monitor display is dim	Use the OSD to increase the brightness. Use the OSD to increase the contrast.
Monitor display is blank.	If the Power Status LED is blinking, the monitor or Computer Module may be in SLEEP mode. Press any key / move the mouse / touch the touchscreen to see if the image reappears.
Monitor displays an “Out Of Range” message	Adjust your computer’s resolution/timing mode to be within the allowable timing ranges specified for your touchmonitor on the Elo website www.elotouch.com
Touch functionality doesn’t work	Verify your computer or Elo Computer Module has the latest drivers installed. Refer to the Setup chapters for details.

Technical Assistance

Visit www.elotouch.com/go/websupport for online self-help.

Visit www.elotouch.com/go/contactsupport for technical support.

See this user manual’s last page for worldwide technical support phone numbers.

Technical assistance for the Computer Module with Windows OS is also available on the computer in the Support Information section of the Systems Properties menu. The Systems Properties menu can be accessed by:

1. Right-clicking the My Computer icon and selecting Properties from the drop-down menu, or
2. Click the Start button; go to the Settings -> Control Panel menu and selecting the System icon

Chapter 8

Safety & Maintenance

Safety

To avoid risk of electric shock, follow all safety notices and do not disassemble the touchmonitor or Computer Module. They are not user-serviceable.

The slots located on the sides and top of the touchmonitor case are for ventilation. Do not block or insert anything inside the ventilation slots.

The touchmonitor is equipped with a 3-wire, grounding power cord. The power cord plug only fits into a grounded outlet. Do not fit or modify the plug into an outlet that has not been configured for this purpose. Do not use a damaged power cord. Only use the power cord that came with your Elo Touch Solutions touchmonitor. Use of an unauthorized power cord might invalidate your warranty.

Ensure that your installation is equipped to maintain the specified environmental conditions listed in the unit's specifications on the Elo Touch Solutions website www.elotouch.com.

Environmental conditions for transportation and storage

Temperature:

Operating	0°C to 35°C
Storage/Transportation	-20°C to 60°C

Humidity (non-condensing) :

Operating	20% to 80%
Storage/Transportation	10% to 90%

Altitude:

Operating	0 to 3,000m
Storage/Transportation	0 to 12,192m

Caution

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Care and Handling

The following tips will help keep your touchmonitor functioning at an optimal level:

- Disconnect the AC power cable before cleaning.
- To clean the display unit cabinet, use a cloth lightly dampened with a mild detergent.
- It is important that your unit remains dry. Do not get liquids on or inside the unit. If liquid does get inside, have a qualified service technician check it before you power it on again.
- Do not wipe the screen with a cloth or sponge that could scratch the surface.
- To clean the touchscreen, use window or glass cleaner applied to a clean cloth or sponge. Never apply the cleaner directly to the touchscreen. Do not use alcohol (methyl, ethyl or isopropyl), thinner, benzene, or other abrasive cleaners.



Mercury Warning

The 3200L, 4200L, and 4600L products contain fluorescent lamps that contain mercury, which must be recycled or disposed of in accordance with local, state, or federal laws.

Waste Electrical & Electronic Equipment Directive (WEEE)



This product should not be disposed of with household waste. It should be deposited at a facility that enables recovery and recycling.

Operating System Recovery - Windows 7 and Windows XP

If for any reason the Computer Module's operating system and software need to be recovered, please contact Elo Touch Solutions from the information found on page 34.

Note: All data is deleted during the recovery process. The user bears responsibility for data and software backup and archiving. Elo Touch

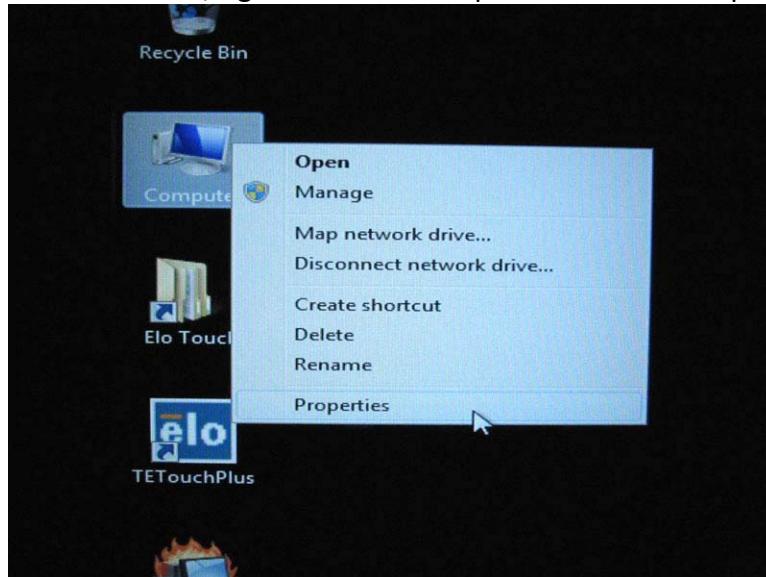
Solutions does not accept liability for lost data or software.

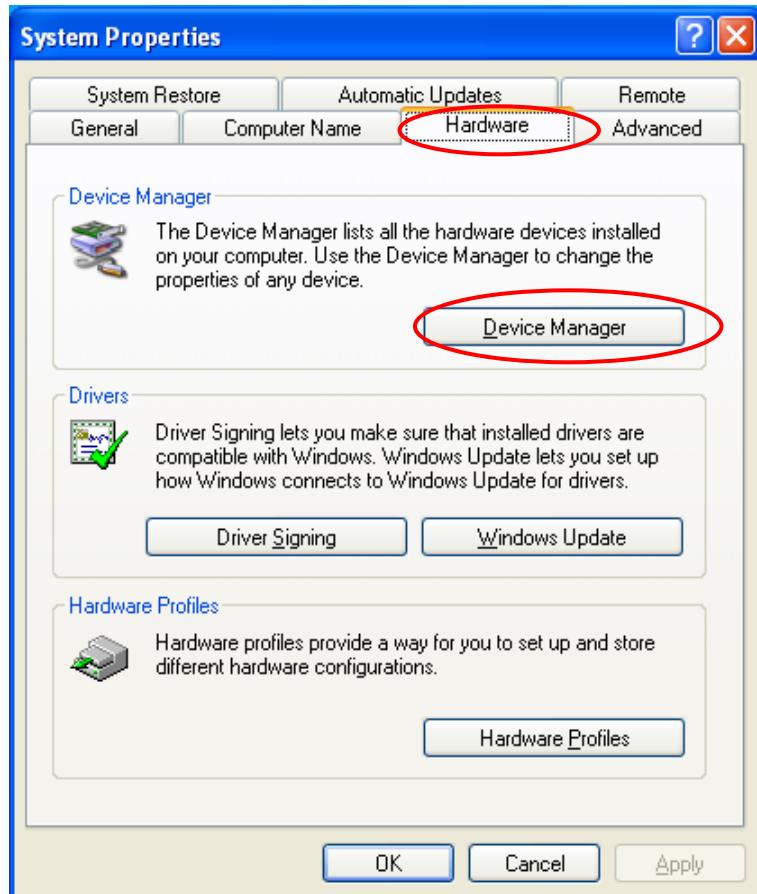
Note: The end user must comply with the Microsoft Windows Licensing Agreement.

- Instructions to reassign the **USB Serial Port after Recovery**

1. For POSReady 2009, right click the “Computer” → Click “Properties” → “Hardware” → “Device Manager”.

For Windows 7, right click the “Computer” → Click “Properties” → “Device Manager”.

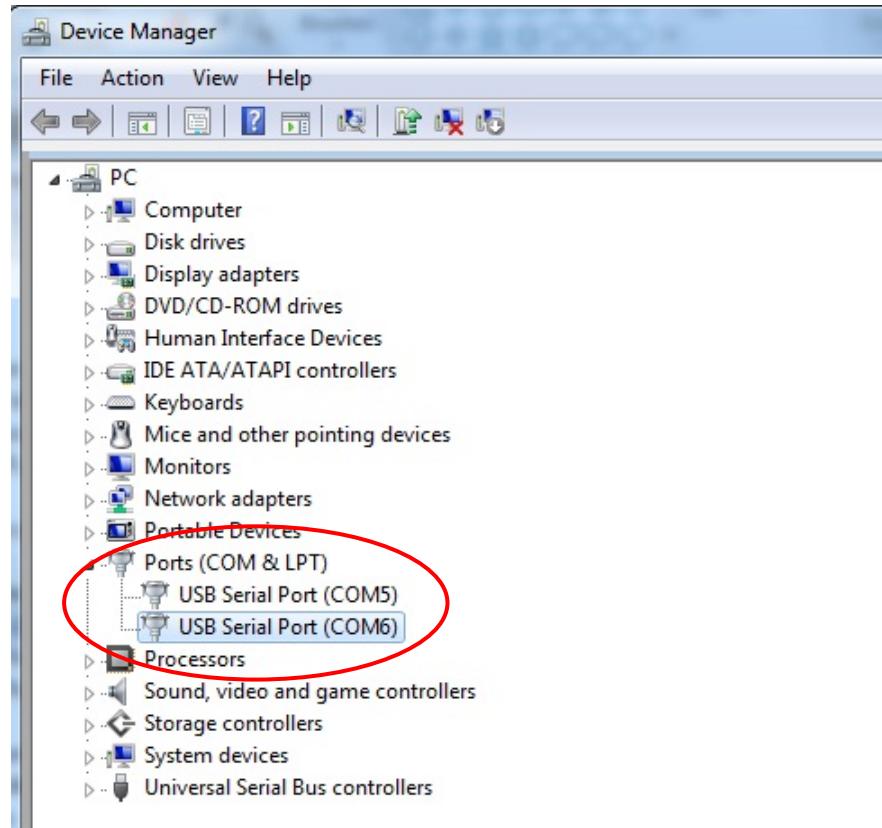




2. Double click the “Ports (COM & LPT)” and check all of these “USB Serial Port” settings must be IDENTICAL as the following table.

Description	Location
USB Serial Port (COM3)	On USB Serial Converter A
USB Serial Port (COM4)	On USB Serial Converter B

3. If you see a situation as below, it shows the operating system has reassigned these serial ports. You need to correct it manually.

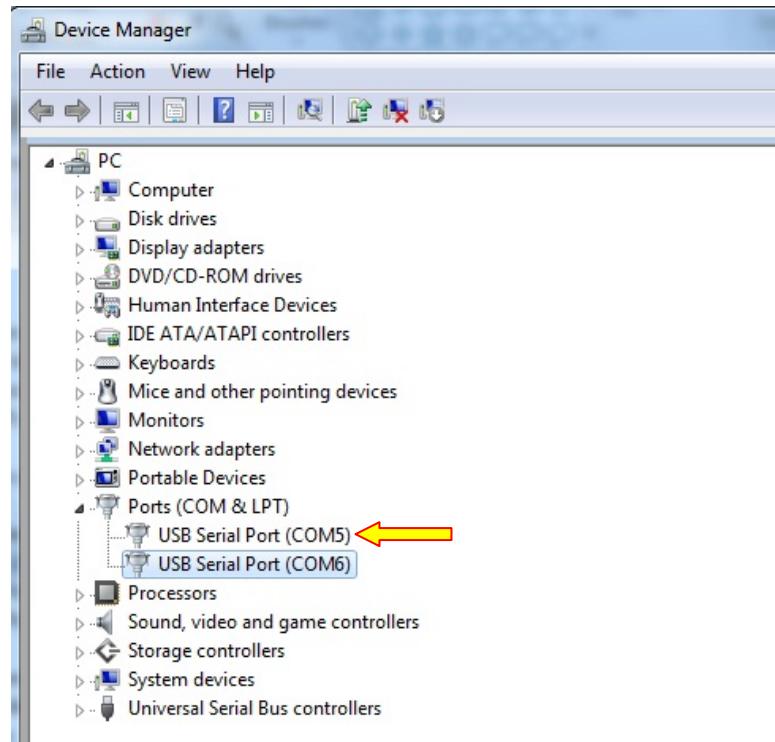


In usual, even if the operating system reassigns these serial ports, they are still in order. In this case, you should change it as the following table.

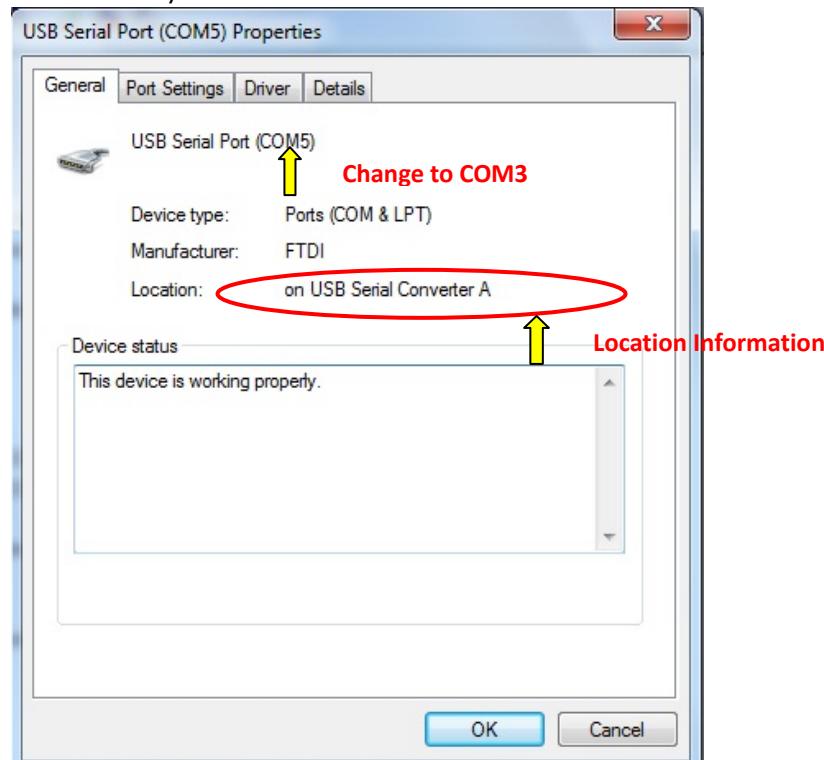
Original one	Change to
USB Serial Port (COM5)	USB Serial Port (COM3)
USB Serial Port (COM6)	USB Serial Port (COM4)

Thus, the settings for these USB Serial Ports should begin at COM3 and end at COM4 in order.

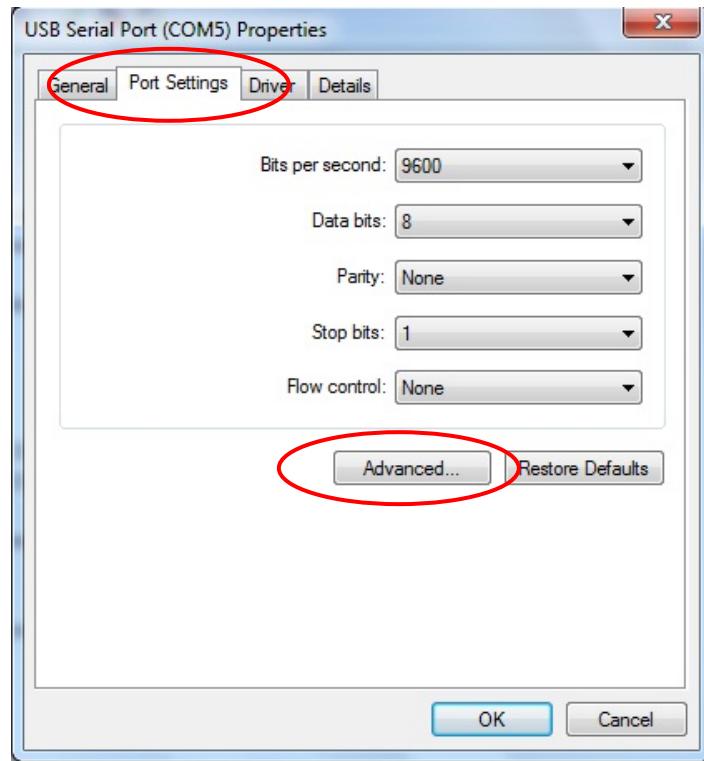
4. To correct it, please follow the instructions below:
Double click the port you need to change. In this case, it is COM5.



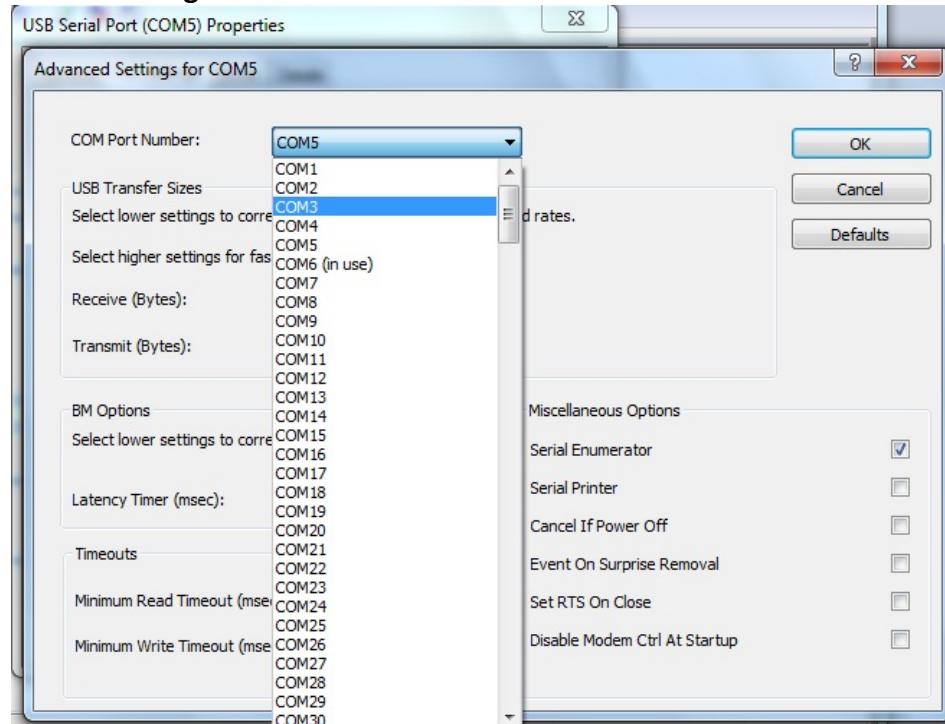
COM5 is the 1st port of these USB serial ports so the “**Location:**” should be “**on USB Serial Converter A**”. Please assign this serial port to **COM3**. (**COM4** for the **USB Serial Converter B**).



Select “**Port Settings**” → Click “**Advanced...**”

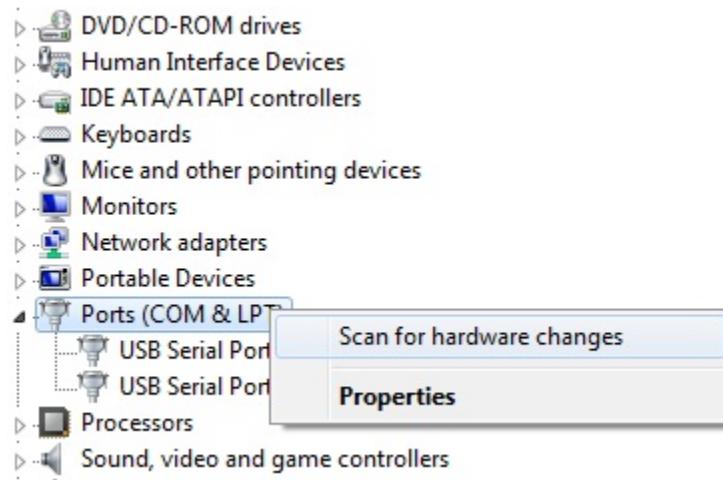


In this case, select **COM3** from the drop-down menu → click **OK** → **OK** back to the **Device Manager**.

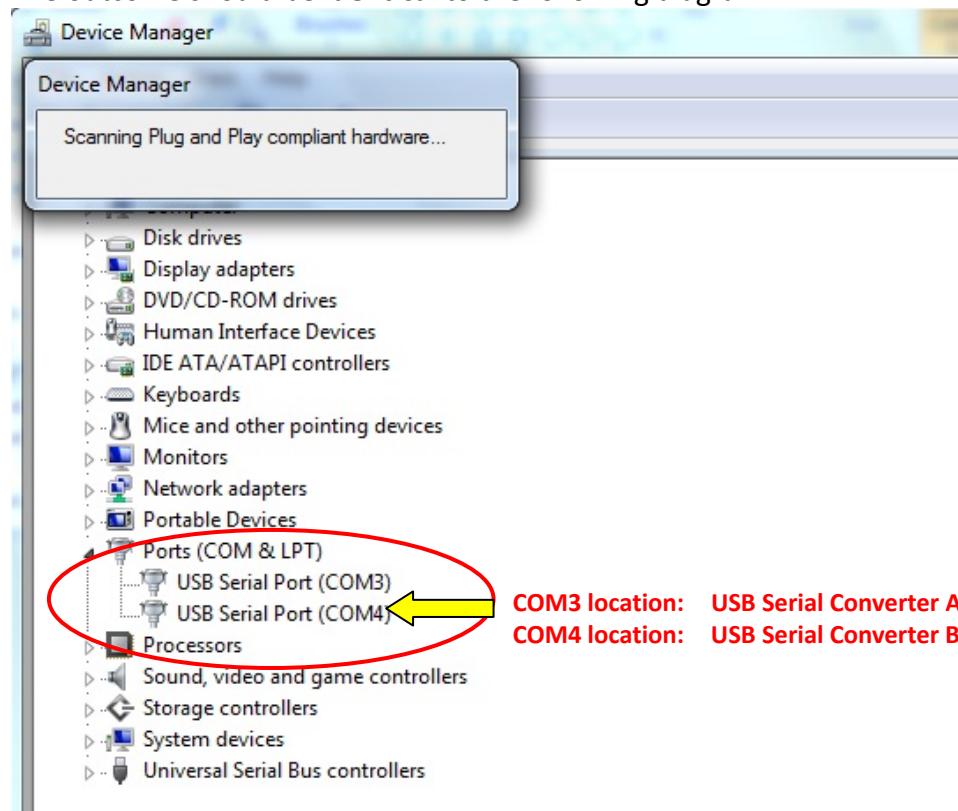


Follow the same steps to accomplish these settings for other ports.

After finished, right click on “**Ports (COM & LPT)**” and click **Scan for hardware changes**.



5. The outcome should be **identical** to the following diagram.



Chapter 9 - Regulatory Information

I. Electrical Safety Information:

Compliance is required with respect to the voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified herein will likely result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.

There are no operator serviceable parts inside this equipment. There are hazardous voltages generated by this equipment which constitute a safety hazard. Service should be provided only by a qualified service technician.

Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment to mains power.

II. Emissions and Immunity Information

Notice to Users in the United States: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Notice to Users in Canada: This equipment complies with the Class A limits for radio noise emissions from digital apparatus as established by the Radio Interference Regulations of Industrial Canada.

Notice to Users in the European Union: Use only the provided power cords and interconnecting cabling provided with the equipment. Substitution of provided cords and cabling may compromise electrical safety or CE Mark Certification for emissions or immunity as required by the following standards:

This Information Technology Equipment (ITE) is required to have a CE Mark on the Manufacturer's label which means that the equipment has been tested to the following Directives and Standards: This equipment has been tested to the requirements for the CE Mark as required by EMC Directive 89/336/EEC indicated in European Standard EN 55022 Class A and the Low Voltage Directive 73/23/EEC as indicated in European Standard EN 60950.

General Information to all Users: This equipment generates, uses and can radiate radio frequency energy. If not installed and used according to this manual the equipment may cause interference with radio and television communications. There is, however, no guarantee that interference will not occur in any particular installation due to site-specific factors.

1) In order to meet emission and immunity requirements, the user must observe the following:

a) Use only the provided I/O cables to connect this digital device with any computer.

b) To ensure compliance, use only the provided manufacturer's approved line cord.

c) The user is cautioned that changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2) If this equipment appears to cause interference with radio or television reception, or any other device:

a) Verify as an emission source by turning the equipment off and on.

If you determine that this equipment is causing the interference, try to correct the interference by using one or more of the following measures:

i) Move the digital device away from the affected receiver.

ii) Reposition (turn) the digital device with respect to the affected receiver.

- iii) Reorient the affected receiver's antenna.
- iv) Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.
- v) Disconnect and remove any I/O cables that the digital device does not use.(Unterminated I/O cables are a potential source of high RF emission levels.)
- vi) Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs. (Removing or cutting the line cord ground may increase RF emission levels and may also present a lethal shock hazard to the user.)

If you need additional help, consult your dealer, manufacturer, or an experienced radio or television technician.

III. Agency Certifications

The following certifications and marks have been issued or declared for this monitor:

Argentina S-mark

Australia C-Tick

Canada CUL

Canada IC

China CCC

China RoHS

Europe CE

Japan VCCI

Mexico NOM

Russia & CIS GOST

United States FCC

United States UL

Chapter 10 – Warranty Information

Except as otherwise stated herein, or in an order acknowledgment delivered to Buyer, Seller warrants to Buyer that the Product shall be free of defects in materials and workmanship. The warranty for the touchmonitors, Computer Module, and their components is 3 (three) years.

Seller makes no warranty regarding the model life of components. Seller's suppliers may at any time and from time to time make changes in the components delivered as Products or components.

Buyer shall notify Seller in writing promptly (and in no case later than thirty days after discovery) of the failure of any Product to conform to the warranty set forth above; shall describe in commercially reasonable detail in such notice the symptoms associated with such failure; and shall provide to Seller the opportunity to inspect such Products as installed, if possible. The notice must be received by Seller during the Warranty Period for such product, unless otherwise directed in writing by the Seller. Within thirty days after submitting such notice, Buyer shall package the allegedly defective Product in its original shipping carton(s) or a functional equivalent and shall ship to Seller at Buyer's expense and risk.

Within a reasonable time after receipt of the allegedly defective Product and verification by Seller that the Product fails to meet the warranty set forth above, Seller shall correct such failure by, at Seller's options, either (i) modifying or repairing the Product or (ii) replacing the Product. Such modification, repair, or replacement and the return shipment of the Product with minimum insurance to Buyer shall be at Seller's expense. Buyer shall bear the risk of loss or damage in transit, and may insure the Product. Buyer shall reimburse Seller for transportation cost incurred for Product returned but not found by Seller to be defective. Modification or repair, of Products may, at Seller's option, take place either at Seller's facilities or at Buyer's premises. If Seller is unable to modify, repair, or replace a Product to conform to the warranty set forth above, then Seller shall, at Seller's option, either refund to Buyer or credit to Buyer's account the purchase price of the Product less depreciation calculated on a straight-line basis over Seller's stated Warranty Period.

These remedies shall be the buyer's exclusive remedies for breach of warranty. Except for the express warranty set forth above, seller grants no other warranties, express or implied by statute or otherwise, regarding the products, their fitness for any purpose, their quality, their merchantability, their non-infringement, or otherwise. No employee of Seller or any other party is authorized to make any warranty for the goods other than the warranty set forth herein. Seller's liability under the warranty shall be limited to a refund of the purchase price of the product. In no event shall Seller be liable for the cost of procurement or installation of substitute goods by Buyer or for any special, consequential, indirect, or incidental damages.

Buyer assumes the risk and agrees to indemnify Seller against and hold Seller harmless from all liability relating to (i) assessing the suitability for Buyer's intended use of the Products and of any system design or drawing and (ii) determining the compliance of Buyer's use of the Products with applicable laws, regulations, codes, and standards. Buyer retains and accepts full responsibility for all warranty and other claims relating to or arising from Buyer's products, which include or incorporate Products or components manufactured or supplied by Seller. Buyer is solely responsible for any and all representations and warranties regarding the Products made or authorized by Buyer. Buyer will indemnify Seller and hold Seller harmless from any liability, claims, loss, cost, or expenses (including reasonable attorney's fees) attributable to Buyer's products or representations or warranties concerning same.

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Getting in Touch with Elo

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SOLUTIONS

Touchboards
205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

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