



# **USER MANUAL**

# Elo Touch Solutions 1517L and 1717L Touchmonitors

SW601708 Rev A

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# **Chapter 1: Introduction**

### **Product Description**

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

This widescreen touchmonitor incorporates a 24-bit color, active matrix thin-film-transistor LCD panel to provide high quality display performance. Its LED backlight significantly reduces power consumption and eliminates mercury (compared to CCFL-backlit panels). Other features that enhance this LCD monitor's performance are Plug & Play compatibility, on-screen display (OSD) controls, and an optional magnetic strip reader (MSR).

#### **Precautions**

Follow all warnings, precautions and maintenance as recommended in this user manual to maximize the life of your unit and prevent risks to user safety. See the Safety & Maintenance chapter for more information.

This manual contains information that is important for the proper setup and maintenance of the unit. Before setting up and powering on your new touchmonitor, read through this manual, especially the Installation, Mounting, and Operation chapters.



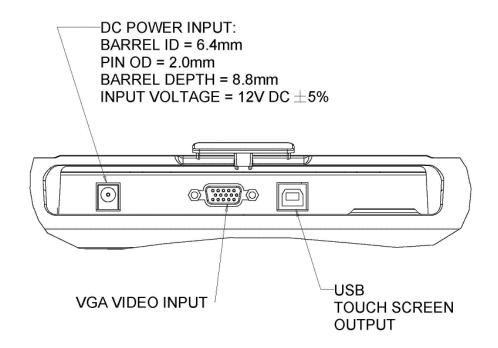
# **Chapter 2: Installation**

# **Unpacking the Touchmonitor**

Open the carton and verify that the following items are present:

- •Touchmonitor with protective sheet for its face
- •Elo TouchTools CD & User Manuals CD
- Japanese language regulatory information pamphlet
- •Quick Install Guide
- •VGA cable
- •USB cable
- •AC-DC power adaptor
- •North American power cable
- •European power cable





#### **Touchmonitor Connections**

1. Connect the VGA video cables between the monitor's VGA input connectors and your VGA video source, respectively. Tighten the video cable's screws for best performance.

2. Connect the USB touch cable between the monitor's USB connector and your PC's USB port.

3. Connect the power adaptor's input connector to the AC power source. Connect the power adaptor's DC output connector to the monitor's input power jack.

4. The touchmonitor ships in an OFF state. Press the power button to turn it on.



### Installing the Touch Technology Software Drivers

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

The drivers for the Windows 7, XP, Vista, WePOS, and 32-bit Server 2003 and 2008 operating systems are provided with your touchmonitor on a CD.

Visit 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":





For Windows XP, Vista, Server 2003, Server 2008, and WEPOS installations, install the "USB Touchscreen Drivers" when prompted:

Elo Touchscreen Setup (5.2	2.0.43 )	
elo	Welcome to Elo Touchscreen Setup.	
TOUCHSYSTEMS	Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Install APR Touchscreen Driver	_
	<back next=""> Cancel</back>	



For Windows 7 installations, check the "Install driver" box under "Elo USB Interfaces – Other Touchscreens"

ID TETouchPlus Version 1.3.0.0	
Install drivers for all detected Elo Touchscreens	<b>Tyco Electronics</b> Our commitment. Your advantage.
Elo USB Interfaces	
APR Touchscreens (0 detected)	ouchscreens (1 detected)
Install driver	Install driver
Serial (RS-232) Interfaces (0 detected)	
USB Serial Port (COM3) USB Serial Port (COM4)	
Install driver on selected	l port(s)
Align touchscreens at end of installation	
Re-detect Touchscreens	Install Close

After accepting the end-user license agreement, the drivers will finish installing.

Reboot your computer after the install is complete.



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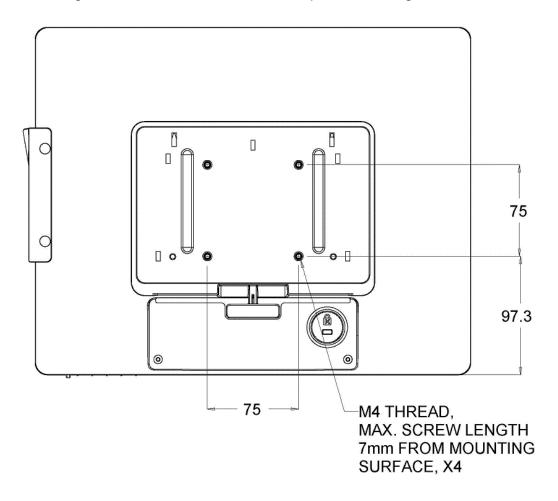
# **Chapter 3: Mounting**

## **General Mounting Information**

The OSD text can be rotated through the OSD menu to better suit your mounting orientation.

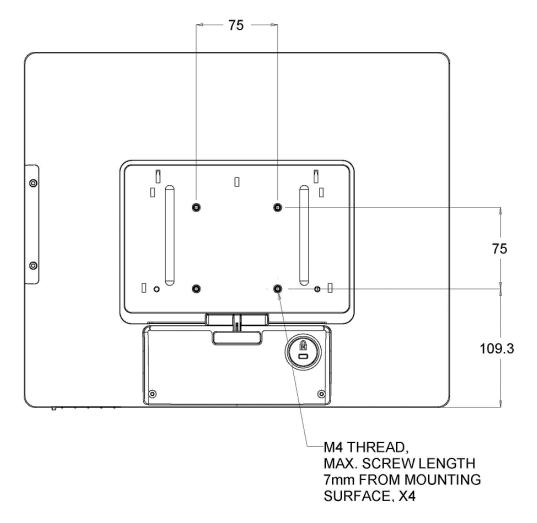
### **Rear VESA Mount**

For the 15 inch touchmonitor, a four-hole 75x75mm mounting pattern for M4 screws is provided on the rear of the monitor. Remove the stand using a Phillips screwdriver to access this mounting interface. The VESA FDMI-compliant counting is coded: VESA MIS-B, 75, C.





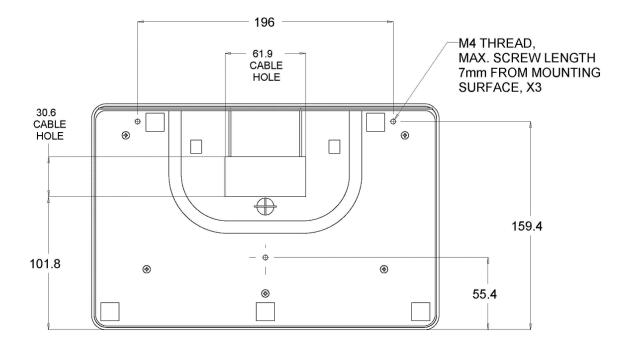
For the 17 inch touchmonitor, a four-hole 75x75mm mounting pattern for M4 screws is provided on the rear of the monitor. Remove the stand using a Phillips screwdriver to access this mounting interface. The VESA FDMI-compliant counting is coded: VESA MIS-B, 75, C.





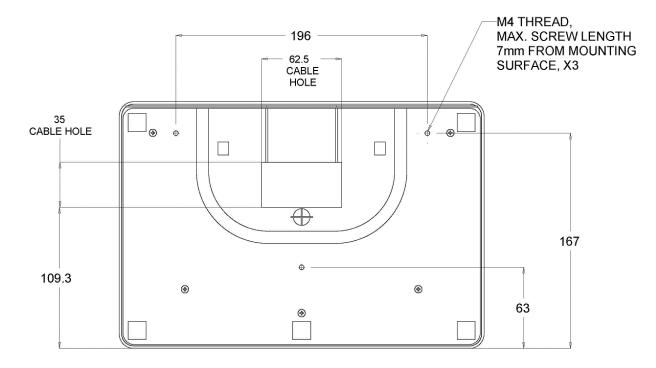
### **Base Mount**

For the 15 inch touchmonitor, a threaded three-hole mounting pattern for M4 screws is provided on the bottom of stand base for mounting or securing.





For the 17 inch touchmonitor, a threaded three-hole mounting pattern for M4 screws is provided on the bottom of stand base for mounting or securing.





# Chapter 4: Operation

#### Power

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

The Power Status LED on the bottom of the touchmonitor functions according to the following table:

TouchMonitor/Computer Module status	LED status		
OFF	OFF		
SLEEP	PULSING		
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 http://www.elotouch.com

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

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

### Touch

Your touchmonitor is factory-calibrated and should not need manual calibration (unless the input video is not fully scaled to the native resolution, or the touch experience needs to be calibrated to a specific user).



### Video

A display's native resolution is its width and height measured in number of pixels. Generally, for best performance, an image displayed on this monitor will look best when your computer's output resolution matches this monitor's native resolution, which is 1024 x 768 for the 15 inch, and 1280 x 1024 for the 17 inch.

For computer output resolutions at non-native resolutions, the monitor will scale the video to its panel's native resolution. This involves stretching or compressing the input image as needed in the X- and Y-dimensions to fit the display's native resolution. 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).

Your touchmonitor will likely not require video adjustments. However, for analog VGA video, variations in video graphic card outputs may require user adjustments through the OSD to optimize the quality of the touchmonitor's displayed image. These adjustments are "remembered" by the touchmonitor. 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. Refer to the technical specifications for this monitor at http://www.elotouch.com for a list of these Preset Video Modes.

# **On-Screen Display (OSD)**

Four OSD buttons are on the bottom of the monitor. These can be used to adjust various display parameters.



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 Brightness submenu	Increase value of selected parameter / select previous menu item		
	Display OSD Contrast submenu	Decrease value of selected parameter / select next menu item		
Select	Auto Adjust	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.		
Drightness	Default: maximum		
Contrast	Increase/decrease monitor contrast.		
	Default: best gray-shade performance		
Clock	Allows fine adjustments of the panel's pixel dot clock.		
Phase	Allows fine adjustments of the panel's pixel dot clock phase.		
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.		
H-position	Moves the image horizontally on the display in single-pixel increments. Default: centered.		
V-position	Moves the image vertically on the display in single-pixel increments. Default: centered.		
	Switches the scaling method between Full Scaling and Maintain Aspect Ratio.		
	Default: Full Scaling		
Aspect Ratio	Full Scaling – scales the X- and Y-dimensions of the input video (up or down as needed) to the display's native resolution. Fill To Aspect Ratio – Assuming a landscape orientation and an input video with aspect ratio smaller than 1024 x 768 for the 15 inch or 1280 x 1024 for the 17 inch, 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>The touchscreen may need recalibration when switching between Aspect Ratio</i> <i>options.</i>		
	Adjusts sharpness of the displayed images.		
Sharpness	Default: no sharpness adjustment		
	Only applicable at non-native input video resolutions		
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		
	Adjusts how long a period of OSD button inactivity the touchmonitor will wait before		
OSD Timeout	closing the OSD. The adjustable range is between 5 and 60 seconds. Default: 15 seconds		
	Selects which language the OSD information is displayed in. The available language		
OSD	are: English, French, Italian, German, Spanish, Simplified Chinese, Traditional		
Language	Chinese, and Japanese.		
	Default: English.		
Recall	Selecting "Recall Defaults" restores all factory default settings for OSD-adjustable		
Defaults	parameters (except OSD Language) and for Preset Video Mode timings.		



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.



# **Chapter 5: 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	Check that the DC power adaptor is properly
turning on the system	connected.
	Verify the DC power adaptor is functioning.
Monitor display is dim	Use the OSD to increase the brightness.
	Use the OSD to increase the contrast.
	If the Power Status LED is blinking, the monitor or
	Computer Module may be in SLEEP mode. Press
Monitor display is blank	any key / move the mouse / touch the Touchscreen to
	see if the image reappears.
	Check that the signal source device is turned on.
	Check that that there are no loose cable connections.
Monitor displays an "Out Of Range"	Adjust your computer's resolution/timing mode to be
message	within the allowable timing ranges specified for your
	touchmonitor (see website for specifications)
	Adjust your computer's resolution/timing mode to be
Monitor display image looks strange	within the allowable timing ranges specified for your
	touchmonitor (see website for specifications)
	Use the Auto Adjust function in the OSD
	Verify your PC has the latest Elo drivers installed.
Touch functionality doesn't work	Perform the calibration routine provided with the
	latest Elo drivers.
The OSD buttons or power button does not	Check to see if the OSD lock or power lock functions
respond when pressed	are on



### **Technical Assistance**

Visit www.elotouch.com/products for technical specifications for this device

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.



# Chapter 6: Safety & Maintenance

## Safety

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

Ensure that your installation is equipped to maintain the specified environmental conditions listed in the Technical Specifications chapter.

### **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 clean 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.





# 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.



# Chapter 7: 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 B 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 B 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 2004/108/EC as indicated in European Standard EN 55022 Class B and the Low Voltage Directive 2006/95/EC 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 in crease 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:

Australia C-Tick Canada CUL, IC China CCC Europe CE Japan VCCI Korea KCC Mexico CoC Taiwan BSMI United States FCC, UL

### **IV. China RoHS**

In accordance to Chinese law (Administration on the Control of Pollution Caused by Electronic Information Products), the section below lists out the name and amount of the toxic and/or hazardous materials that this product may contain.

Component	Toxic or Hazardous Substances and Elements					
Name	Lead(Pb)	Mercury(Hg)	Cadmium(Cd)	Hexavalent Chromium (Cr6+)	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Plastic Parts	0	0	0	Ó	Ó	0
Metal Parts	Х	0	0	0	0	0
Wire and Cable Assembly	Х	0	0	0	0	0
LCD Panel	Х	0	0	0	0	0
Touch Screen Panel	Х	0	0	0	0	0
PCBA	Х	0	0	0	0	0
Software (CD, etc.)	0	0	0	0	0	0

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this component is below the limit requirement in SJ/T11363-2006.

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this component is above the limit requirement in SJ/T11363-2006. For items marked with X, exemptions were taken according to EU RoHS.



Explanation of Markings

(1). In accordance with the SJ/T11364-2006 requirement, the electronic information products are marked with the following pollution control logo. The Environment-Friendly Use Period for this product is 10 years. The product will not leak or mutate under normal operating conditions listed below, so that the use of this electronic information product will not result in any severe environmental pollution, any bodily injury, or damage to any assets.

Operating Temperature:0-40 / Humidity:20%-80% (non-condensing).

Storage Temperature:-20~60 / Humidity:10%~90% (non-condensing).



(2). It is encouraged and recommended that this product be recycled and reused according to local laws. The product should not be thrown away casually.



V. Power Adapter Specifications Electrical Ratings: Input: 100-240VAC, 50-60Hz Output: 12VDC, minimum 3.33A, LPS

VI. Monitor Specifications Electrical Ratings: Input: 12VDC, 2.5A Operating Conditions: Temperature: 0°C - 40°C Humidity: 20% to 80% (non-condensing) Altitude: 0 to 3,048m Storage Conditions: Temperature: -20°C - 60°C Humidity: 10% to 90% (non-condensing) Altitude: 0 to 12,192m



# Chapter 8: 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 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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# www.elotouch.com

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- Product Information
- Specifications
- •News on upcoming events
- Press releases
- Software drivers
- TouchMonitor Newsletter

# Getting in Touch with us

To find out more about the extensive range of Elo touch solutions, visit our website at www.elotouch.com, or simply call the office nearest you:

North America Elo Touch Solutions

301 Constitution Drive

Menlo Park, CA 94025

Tel 800-ELO-TOUCH Tel 1-650-361-4800 Fax 1-650-361-4722 customerservice@elotouch.com Europe Tel +32(0)(16)35-2100 Fax +32(0)(16)35-2101 elosales@elotouch.com Asia-Pacific Tel +81(45)478-2161 Fax +81(45)478-2180 www.tps.co.jp Latin America Tel 786-923-0251 Fax 305-931-0124 www.elotouch.com.ar

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