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USER MANUAL

Elo Touch Solutions 2440L Touchmonitor

SW602154 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 touchscreen technology and display design. This combination of features ensures a product with stable, drift-free operation, consistent reliability and durability, backed by a 3-year standard warranty.

This open-frame touchmonitor delivers a professional-grade display in a slim, integrated package. It incorporates a pure-glass touchscreen for optimal image quality, a high quality panel and multiple mounting options. Its LED backlight significantly reduces power consumption and eliminates mercury (compared to CCFL-backlit panels). The true-flat edge-to-edge design gives integrators an additional advantage in developing the most aesthetically pleasing products

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.

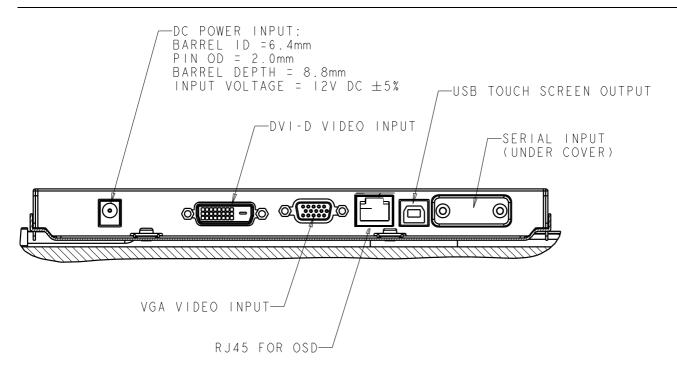
Chapter 2: Installation

Unpacking the Touchmonitor

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

- Touchmonitor with protective sheet for its face
- User Manuals CD
- Japanese language regulatory information pamphlet
- Quick Install Guide
- VGA cable
- DVI cable
- USB cable (not available for no touch models)
- Serial cable (available for single touch models only)
- Mounting brackets and screws
- OSD Remote

Connector Panel & Interfaces



Touchmonitor Connections

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

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

3. Connect a 12VDC power supply to the monitor's input power jack.

4. The touchmonitor ships in an ON state, video should be displayed on your monitor already.

Installing the Touch Technology Software Drivers

Some software installation is required for your touchmonitor to work with your computer. No additional drivers are required for your projected-capacitive touchmonitor, it uses Windows HID drivers.

The drivers are available on the Elo Touch Solutions website.

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

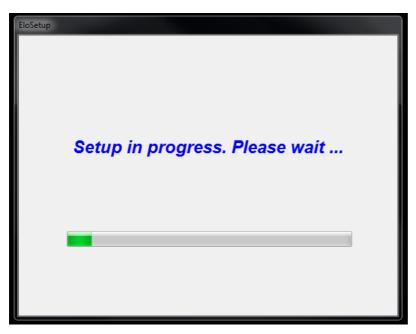
_ 🗆 📈 🔋 http://www.elotouch.com/Support/Downloads/dnld 🔎 - 🗟 🖒 🗙 🔋 box Solutions ... 🗙 ÷ $h \star$ 10 Worldwide TOUCH SOLUTIONS eCommerce Sign In Google" Custom Search Q V Home > Support > Downloads > Products **Driver and File Downloads** Solutions Subscribe to The Touch Monitor, the Elo email newsletter, for information on the latest driver releases. Technologies **(i)** 0 Support Help with downloads - Help with identifying your touch technology ~ How To Buy Archived/unsupported drivers are available on this page. -Partners Windows XP Pro operating system licensing will be valid through 2016 on Elo TouchSystems products. As well as offering additional new OS options, support of Windows XP will continue up to 2016. 7 About Elo The Acoustic Pulse Recognition (APR) and Projected Capacitive touch technologies are not supported by all operating systems including Mac and some versions of Linux. See the Technology notes for each driver on the Driver and File Downloads page to verify support for your touchscreen technology. 0 Resources **Touch Drivers** Download 05¹ Interface ? Technology ? Notes Elo TouchSystems Single-touch Driver Windows 7² XP USB, Serial Optional driver for All Elo touch Windows Hardware technologies except Projected Capacitive and IntelliTouch Plus Quality Lab (WHQL) certified driver. 5.4.7 (14.3 MB) Vista Windows Server 2003 Windows Multiple monitor support. Server 2008 Windows POSReady d for any other OS. sesturing not supported with current Elo hardware; for multi-touch and gesturing support, see Elo TouchSystems Multi-touch Not recommended for a
 Multi-touch and gesture Download 05¹ Interface ? Technology Notes Elo iTouch+XP USB iTouch Plus only XP Windows Hardware Quality driver 1.0.1 (15.0 MB) Recommended for 1541L product with iTouch Plus touch technology. Lab (WHQL) certified USB driver. (1) Not recommended for any other OS.

Select the applicable driver from the Elo Touch Solutions website and download:

For Windows 7 installations, double-click on EloSetup Installer



User Manual: 2440L SW602154 Rev A, Page 8 of 34 After accepting the end-user license agreement, the system will initialize to setup installation of drivers.



To complete setup, reboot system by clicking on "Reboot Now" button. Click on "One More Minute" if more time is needed with increments of 1 minute.

Reboot		C	TOUCH SOLUTIONS
	You must re	boot the system in order to installation	complete the
Reboot		ne left 25 Secor	nds Reboot Now

Note: System will automatically reboot when "Time left" counter reaches "0".

For $\ensuremath{\textbf{Windows}}\xspace{\ensuremath{\textbf{XP}}}\xspace$ installations, double-click on the icon from the desktop

WinZip Self-Extractor	X
Welcome to Elo Touch Solutions ['] Elo TouchMou XP, Windows 7 and Windows 8.	use Driver Installer for Windows
Driver Version 5.5.0 (06-21-2013)	
Click OK to continue.	
	ОК

Click on "Unzip" button to unzip files.

fo unzip all files in this self-extractor file to the specified folder press the Unzip button.	Unzip
Unzip to folder:	Run WinZip
Users\Elo\AppData\Local\Temp Brows	e Close
Overwrite files without prompting	About
 When done unzipping open: .\Setup.exe 	Help

Elo Touchscreen Setup (5.5.0)
Welcome to Elo Touchscreen Setup.
Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Install APR Touchscreen Driver <back next=""> Cancel</back>
TouchPlus Version 1.0.2 Install drivers for all detected Elo Touchscreens COO SOLUTIONS
Install drivers for all detected Elo Touchscreens Install driver Communications Port (COM1) Install driver In
Install drivers for all detected Elo Touchscreens Install drivers for all detected Elo Touchscreens Install driver Install dr
Install drivers for all detected Elo Touchscreens Install driver Communications Port (COM1) Install driver In

Select one or more of the drivers to install. Click on "Next"

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

Reboot your computer after the install is complete.

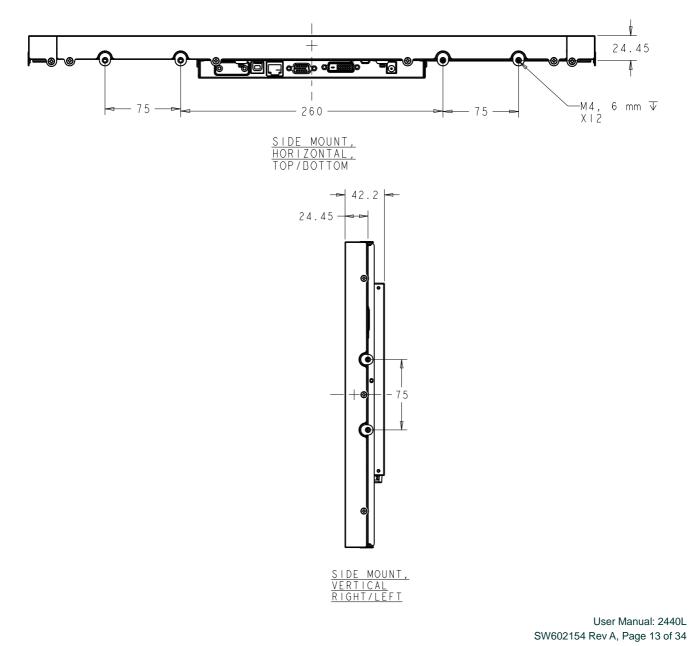
Chapter 3: Mounting

General Mounting Information

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

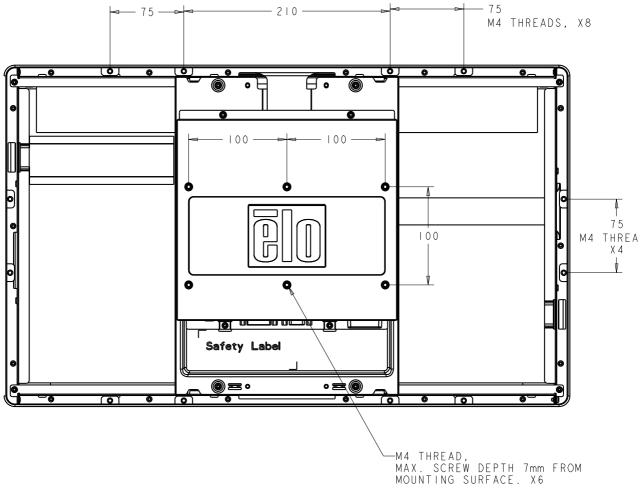
Side Bracket Mount (IntelliTouch and No Touch models only)

Threaded holes are provided on the sides of the monitor for mounting using the provided brackets.



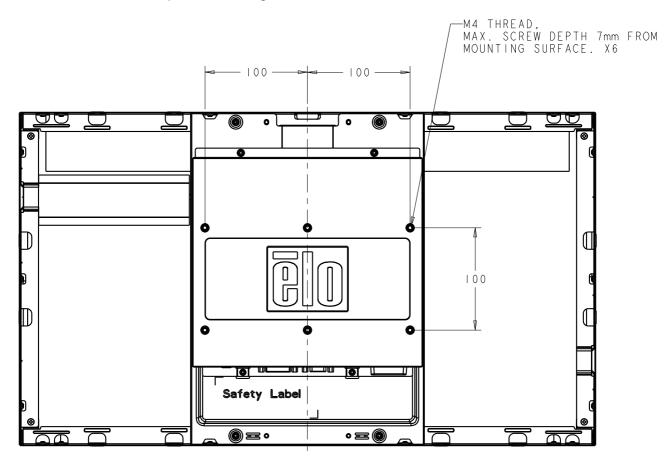
Flush Bracket Mount (iTouch and Projected Capacitive models only)

Threaded holes are provided on the back of the monitor for mounting using the provided brackets.



Rear VESA Mount (All models)

A four-hole 200x100mm mounting pattern for M4 screws is provided on the rear of the monitor. The VESA FDMI-compliant counting is coded: VESA MIS-D, 200mm x 100mm.



Chapter 4: Operation

Power

The touchmonitor ships in an ON state.

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

The Power Status LED on the OSD controller functions according to the following table:

Touchmonitor 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 AC power cable from the monitor 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).

IntelliTouch/iTouch Plus Touchscreen Technology

When connected to Windows 7 computers, the touchmonitor can report two simultaneous touches. The IntelliTouch/iTouch Plus touchscreen can be re-calibrated to your displayed video image, if needed, through the Calibration function in the Elo driver control panel.

The IntelliTouch/iTouch Plus driver will only support multiple monitor if they are all using the

IntelliTouch/iTouch Plus touchscreen technology.

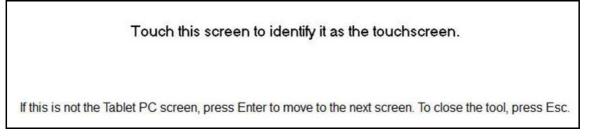
To use **multiple IntelliTouch/iTouch Plus monitors**, plug in monitors to calibrate, double-click on the EloConfig desktop shortcut to run Elo Touchscreen Configuration screen.



Click on "Calibrate Touch Screens..." to calibrate multiple monitors.

Io Touchscreen Configuration	
Restarts the Microsoft Touch Service if touch function appears to be lost.	Restart Windows Touch Service
Launches mapping utility to match touch input to a display. For Systems With Multiple Screens Only. Calibrate all Touch screens.	Calibrate Touch Screens
Device Infomation. Cursor Edge Acceleration. Disable Touch. Restore Default Calibration.	Touch Screen Properties
Shared Touch Alert (beep) and Hide Cursor During Calibration Settings for All Touch Screens	Common Settings
Define Touch Enabled Areas. Settings are screen specific.	Define Touch Zones
Copyrights. Component Versions. Web Support. Readme. Build infomation.	About
	About

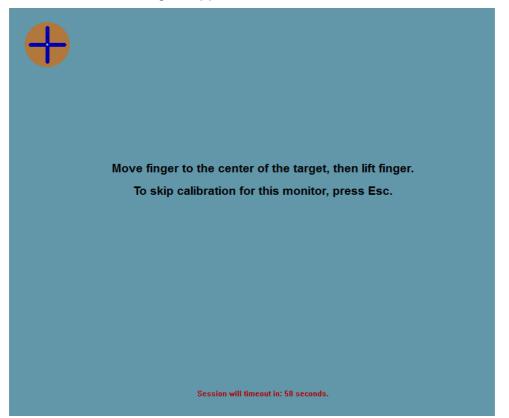
Tap monitor screen to identify monitor's identity as shown below.



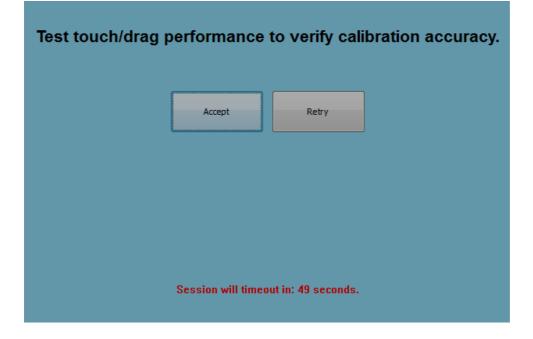
Identity of the monitor will display. Click on "OK" to proceed to calibration.



Calibrate touch as targets appear on corners of the screen. Follow instructions on screen.



Test touch/drag performance to verify calibration accuracy, "Accept" or "Retry" to redo calibration process.



Run touch calibration on each monitor that is plugged in.

Projected Capacitive Touch Technology

When connected to Windows 7 computers, the touchmonitor can report 2 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.

Gesture Support

The IntelliTouch/iTouch Plus and Projected Capacitive touch technologies enable several gestures that support single and multiple touches. Refer to the Microsoft Website http://msdn.microsoft.com/en-us/library/dd940543 on the various gestures that are supported in Windows 7.

Video

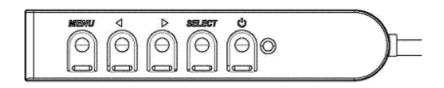
A display's native resolution is its width and height measured in number of pixels. Generally, for best performance, an image displayed on this monitor will look best when your computer's output resolution matches this monitor's native resolution of 1920 x 1080.

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 located on a wired control box. 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 Contrast submenu	Decrease value of selected parameter / select next menu item	
	Display OSD Brightness submenu	Increase value of selected parameter / select previous 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.				
Digitiless	Default: maximum				
Contrast	Increase/decrease monitor contrast.				
Contrast	Default: best gray-shade performance				
Clock	Allows fine adjustments of the panel's pixel dot clock.				
CIOCK	Only applicable for VGA input video				
Phase	Allows fine adjustments of the panel's pixel dot clock phase.				
Filase	Only applicable for VGA input video				
	Automatically adjusts the system clock to the input analog VGA video signal,				
Auto Adjust	affecting the H-position, V-position, Clock, and Phase menu items.				
	Only applicable for VGA input video				
	Moves the image horizontally on the display in single-pixel increments.				
H-position	Default: centered.				
	Only applicable for VGA input video				
	Moves the image vertically on the display in single-pixel increments.				
V-position	Default: centered.				
	Only applicable for VGA input video				

	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 1920 x 1080, 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).			
	The touchscreen may need recalibration when switching between Aspect Ratio options.			
	Adjusts sharpness of the displayed images.			
Sharpness	Default: no sharpness adjustment			
	Only applicable at non-native input video resolutions			
	Selects the display's color temperature. The available color temperatures are			
Color	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,			
Temperature	and B gains on a scale from 0 to 100.			
	Default: User Defined with R, G, and B all set to 100.			
OSD	Adjusts the horizontal location of the OSD menus on the display			
H-Position	Default: centered.			
OSD	Adjusts the vertical location of the OSD menus on the display.			
V-Position	Default: centered.			
OSD	Adjusts how long a period of OSD button inactivity the touchmonitor will wait			
Timeout	before 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			
OSD	languages are: English, French, Italian, German, Spanish, Simplified Chinese,			
Language Traditional Chinese, and Japanese.				
	Default: English.			
OSD	Selects the touchmonitor mounting orientation between Landscape and Portrait			
Rotation	to match your physical orientation. This adjusts the rotation of the OSD text			
	Default: Landscape			
Recall	Selecting "Recall Defaults" restores all factory default settings for			
Defaults	OSD-adjustable parameters (except OSD Language) and for Preset Video Mode timings.			
	The monitor continually scans for active video on the VGA and DVI connectors.			
Video	This adjustment selects which of those input ports should be given priority to be			
	displayed.			
Source	The options are: VGA Priority, DVI Priority			
	Default: DVI Priority			

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 "▶" buttons for two seconds to enable/disable the OSD Locking feature. When the OSD Locking is enabled, pressing any of the "Menu", "▶", "◀", or "Select" keys will have no effect on the system.

Press and hold the "Menu" and "◄" 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. Worldwide technical support phone numbers are available on the last page of this use manual.

Solutions to Common Problems

Problem	Suggested Troubleshooting
The touchmonitor does not respond when turning on the system	Check that the DC power adaptor is properly 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.
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. Check that the signal source device is turned on. Check that that there are no loose cable connections.
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 (see website for specifications)
Monitor display image looks strange	Adjust your computer's resolution/timing mode to be within the allowable timing ranges specified for your touchmonitor (see website for specifications) Use the Auto Adjust function in the OSD
Touch functionality doesn't work	Verify your PC has the latest Elo drivers installed. Perform the calibration routine provided with the latest Elo drivers.
The OSD buttons or power button does not respond when pressed	Check to see if the OSD lock or power lock functions are on

Technical Assistance

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

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

Visit <u>www.elotouch.com/go/contactsupport</u> 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, turn the unit off and 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.
- Ensure the environmental temperature and humidity are maintained within specification and do no block ventilation slots.
- Monitors are not designed for outdoors.

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, e-Standby 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	Polybrominated	Polybrominated
				Chromium	Biphenyls	Diphenyl
				(Cr6+)	(PBB)	Ethers (PBDE)
Plastic	0	0	0	0	0	0
Parts						
Metal Parts	Х	0	0	0	0	0
Wire and	Х	0	0	0	0	0
Cable						
Assembly						
LCD Panel	Х	0	0	0	0	0
Touch	Х	0	0	0	0	0
Screen						
Panel						
PCBA	Х	0	0	0	0	0
Software	0	0	0	0	0	0
(CD, etc.)						
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 (and all packaging materials) 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 4.16A, LPS

(Power adapter needs to be UL approved)

VI. Monitor Specifications

Electrical Ratings:

Input: 12VDC, 3A

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 95% (non-condensing) Altitude: 0 to 12,192m

Chapter 8: Warranty Information

See <u>http://www.elotouch.com/Support/warranty.asp</u> for more information.

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Check out Our Website!

www.elotouch.com

Get the latest...

- Product Information
- Specifications
- Upcoming events
- Press releases
- Software drivers

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

1033 McCarthy Blvd

Milpitas, CA 95035

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Latin America

www.elotouch.com.ar

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