(shown with optional Magnetic Stripe Reader)

**Touchmonitor User Guide**

1515L 15” LCD Desktop Touchmonitor  
(Optional Magnetic Stripe Reader Available)

SW500951 Rev M
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# Table of Contents

Chapter 1  
**Introduction** 7  
Product Description ........................................7  
Precautions......................................................7  
About the product .............................................8  

Chapter 2  
**Installation and Setup** 9  
Unpacking Your Touchmonitor .............................9  
Touch Interface Connection ................................11  
MSR Interface connection(Optional) ......................11  
Product Overview ..............................................12  
Main Unit .......................................................12  
Rear View ..........................................................12  
Kensington™ Lock ..............................................13  
Installing the Touch Driver Software ....................14  
Installing the Serial Touch Driver (not applicable to Acoustic Pulse Recognition and Projected-Capacitive monitor) ..........................................................14  
Installing the Serial Touch Driver for Windows 7, Windows Vista, Windows XP, Windows 2000, ME, Windows 98/95 and NT 4.0 .........................14  
Installing the Serial Touch Driver for Windows 3.1 and MS-DOS ........................................15  
Installing the USB Touch Driver .........................16  
Installing APR USB Touch Driver for Windows 7, Windows VISTA and Windows XP .........................17  

Chapter 3  
**Operation** 18  
About Touchmonitor Adjustments .......................18  
Side Panel Controls .........................................19  
Controls and Adjustment ....................................20  
OSD Menu Functions .........................................20  
OSD Lock/Unlock ................................................20  
OSD Control Options ..........................................21  
Preset Modes ....................................................22  
Power Management System ...............................23  
Display Angle ......................................................23  
Projected-Capacitive Touch Technology ..................24  
Gesture Support ..................................................24  

Chapter 4  
**Troubleshooting** 25  
Solutions to Common Problems .........................25  

Appendix A  
Native Resolution ..............................................26  

Appendix B  
Touchmonitor Safety .........................................28  
Care and Handling of Your Touchmonitor ...............29  
Warning ..........................................................29  

Appendix C  
Technical Specifications ..................................30  
Touchmonitor Specifications .............................31  
15" LCD Touchmonitor (1515L) Dimensions ..........32

Regulatory Information 33  
Warranty 36
INTRODUCTION

Product Description

Your new touchmonitor combines the reliable performance of touch technology with the latest advances in (LCD) display design. This combination of features creates a natural flow of information between a user and your touchmonitor.

This LCD monitor incorporates a 15” color active matrix thin-film-transistor (TFT) to provide superior display performance. A maximum resolution of XGA 1024 x 768 is ideal for displaying graphics and images. Other outstanding features that enhance this LCD monitor’s performance are Plug & Play compatibility, and On Screen Display (OSD) controls.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user’s manual to maximize the life of your unit. See Appendix B for more information on touchmonitor safety.
About the Product

The 1515L LED Desktop Touchmonitor is a 15” color display with the following features:

• The internal microprocessor digitally controls auto-scanning. For horizontal scan frequencies between 31.5 KHz and 60.2 KHz, and vertical scan frequencies between 56.3Hz and 75.0 Hz. In each frequency mode, the microprocessor-based circuitry allows the monitor to function at the precision-of a fixed frequency.

• High contrast color LED display support resolution up to XGA 1024 x 768. Compatible with VGA, SVGA, XGA (non-interlaced) and most Macintosh compatible color video cards.

• Power management system conforms to VESA DPMS standard.

• Supports DDC 2B for Plug & Play compatibility.

• Advanced OSD control for picture quality adjustment.

• Detachable stand for wall-mounting application.

• Optional touch screen function.

For full Product Specifications refer to Appendix C.
This chapter discusses how to install the 1515L LCD touchmonitor and the driver software.

## Unpacking Your Touchmonitor

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

- LCD monitor
- VGA cable
- USB cable
- CD and Quick Install Guide
Power cable for European models

Europe/VDE power cable

Power cable for Japan models

Japanese/PSE power cable  Adapter/Terminal

Power cable for Asia models

China/CCC power cable  and  or  Taiwan/BSMI power cable  and  or  Korea/KC power cable

Power cable for Worldwide models

USA/UL Power cable  Europe/VDE power cable
Touch Interface Connection

**Note:** Before connecting the cables to your touchmonitor and PC, be sure that the computer and touchmonitor are turned off.

![Diagram of Touch Interface Connection]

1. Connect one end of the **power cord** to the monitor and the other end to the AC outlet.
2. Connect one end of either the **touchscreen serial (RS232) cable** or the touch screen USB cable (but not both) to the rear side of the computer and the other end to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding (optional module USB cable does not have thumb screws).
3. Connect one end of the **video cable** to the rear side of computer and the other to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
4. Press the **power button** on the front panel to turn the monitor power on.

Magnetic Stripe Reader (MSR) Interface Connection (optional)

If the MSR is installed on the monitor, plug the USB cable from the MSR directly to the PC. No drivers are required to be loaded.

To change the MSR function mode from keyboard emulation to HID, load the “MSR CHANGE MODE.EXE” utility from the enclosed TouchTools CD or go online to www.elotouch.com to download this utility.

**Note:** MSR function mode can be changed to HID mode from keyboard emulation mode and back using the “MSR CHANGE MODE.EXE” utility.
The Kensington™ lock is a security device that prevents theft. To find out more about this security device, go to http://www.kensington.com.
Installing the Driver Software

Elo TouchSystems provides driver software that allows your touchmonitor to work with your computer. Drivers are located on the enclosed CD-ROM for the following operating systems:

- Windows 7
- Windows Vista
- Windows XP
- Windows 2000
- Windows Me
- Windows 98
- Windows 95
- Windows NT 4.0
- Windows 3.1
- MS-DOS

Additional drivers and driver information for other operating systems are available on the Elo TouchSystems web site at www.elotouch.com.

The Elo touchmonitor is plug-and-play compliant. Information on the video capabilities of your touchmonitor is sent to your video display adapter when Windows starts. If Windows detects your touchmonitor, follow the instructions on the screen to install a generic plug-and-play monitor.

Refer to the following appropriate section for driver installation instructions.

Depending upon whether you connected the serial communication cable or the USB communication cable, only the serial driver or the USB driver should be installed.
Installing the Serial Touch Driver for Windows 7, Windows Vista, Windows XP, Windows 2000, 98/95, ME and NT4.0.

NOTE: For Windows 2000 and NT4.0 you must have administrator access rights to install the driver. Make sure the serial connector (RS232) is plugged into the monitor and an open com port on the PC.

1. Insert the Elo CD-ROM in your computer's CD-ROM drive.
2. If the AutoStart feature for your CD-ROM drive is active, the system automatically detects the CD and starts the setup program.
3. Follow the directions on the screen to complete the driver setup for your version of Windows.
4. If the AutoStart feature is not active:
   5. Click Start > Run.
   6. Click the Browse button to locate the EloCd.exe program on the CD-ROM.
   7. Click Open, then OK to run EloCd.exe.
   8. Follow the directions on the screen to complete the driver setup for your version of Windows.
Installing the Serial Touch Driver for Windows 3.1 and MS-DOS

You must have a DOS mouse driver (MOUSE.COM) installed for your mouse if you wish to continue using your mouse along with your touchmonitor in DOS.

To install Windows 3.x and MS-DOS touch driver from Windows 98/95, follow the directions below:
1. Insert the CD-ROM in your computer’s CD-ROM drive.
2. From DOS, type d: and press the Enter key to select the CD-ROM (your CD-ROM drive may be mapped to a different drive letter).
3. Type cd\elodos_w31 to change to the correct directory.
4. Type Install and press Enter to start the installation.
5. Calculate the touchscreen.
Installing the USB Touch Driver


1 Insert the Elo CD-ROM in your computer’s CD-ROM drive.
   If Windows 2000 or Windows 98 starts the Add New Hardware Wizard, do the following: 2
   Choose Next. Select “Search for the best driver for your device (Recommended)” and
   choose Next.
3 When a list of search locations is displayed, place a checkmark on “Specify a location” and
   use Browse to select the \EloUSB directory on the Elo CD-ROM.
4 Choose Next. Once the Elo USB touchscreen driver has been detected, choose Next again. 5
   You will see several files being copied. Insert your Windows 98 cd if prompted. Choose
   Finish.

If Windows 2000 or Windows 98 does not start the Add New Hardware Wizard, do the
following:

NOTE: For Windows 2000 you must have administrator access rights to install the driver.

1 Insert the Elo CD-ROM in your computer’s CD-ROM drive. If the AutoStart feature for your
   CD-ROM drive is active, the system automatically detects the CD and starts the setup
   program.
2 Follow the directions on the screen to complete the driver setup for your version of
   Windows.

If the AutoStart feature is not active:
1 Click Start > Run.
2 Click the Browse button to locate the EloCd.exe program on the CD-ROM.
3 Click Open, then OK to run EloCd.exe.
4 Follow the directions on the screen to complete the driver setup for your version of
   Windows.
Installing APR USB Touch Driver for Windows 7, Windows VISTA and Windows XP

Insert the Elo CD-ROM in your computer’s CD-ROM driver.
Follow the directions on the screen to complete the APR 3.1 driver setup for your version of Windows. Do not plug USB cable until software is fully loaded. When finished, plug USB cable and alignment data is transferred.

NOTE: For the latest driver, go to elotouch.com and download it from the driver download section.
About Touchmonitor Adjustments

Your touchmonitor will not likely require adjustment. However, variations in video output and application may require adjustments to the touchmonitor to optimize the quality of the display.

For best performance, your touchmonitor should be operating in native resolution, that is 1024 x 768 at 80k-75 Hz. Use the Display control panel in Windows to choose 1024 x 768 resolution.

Operating in other resolutions will degrade video performance. For further information, please refer to Appendix A.

All adjustments made to the controls are automatically memorized. This feature saves you from having to reset the 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.
## Side Panel Controls

<table>
<thead>
<tr>
<th>Control</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Menu/Exit</td>
<td>Display/Exits the OSD menus.</td>
</tr>
<tr>
<td>2 ▲</td>
<td>1. Enter contrast of the OSD.</td>
</tr>
<tr>
<td></td>
<td>2. Increase value of the adjustment item.</td>
</tr>
<tr>
<td>3 ▼</td>
<td>1. Enter brightness adjustment.</td>
</tr>
<tr>
<td></td>
<td>2. Decrease value of the adjustment item.</td>
</tr>
<tr>
<td>4 Select</td>
<td>1. Auto adjust function.</td>
</tr>
<tr>
<td></td>
<td>2. Selects the adjustment item from the OSD menus.</td>
</tr>
<tr>
<td>5 Power Switch</td>
<td>Switches the power of the monitor.</td>
</tr>
</tbody>
</table>
Controls and Adjustment

OSD Menu Functions

To Display and Select the OSD Functions:
1. Press the Menu key to activate the OSD menu.
2. Use ▲ or ▼ to move clockwise, or counterclockwise through the menu. Press the “Select” key, the parameter will be highlighted when selected.
3. To quit the OSD screen at any time during the operation, press the Menu key. If no keys are pressed for a short time period, the OSD automatically disappears.

NOTE: The OSD screen will disappear if no input activities are detected for at a minimum of 45 seconds or depending on how long the timer is set via the OSD menu. The time ranges from 45 seconds to 255 seconds.

OSD Lock/Unlock

The OSD feature can be locked and unlocked. The monitor is shipped in the unlocked position.

To lock the OSD:
1. Press the Menu button and ▲ button simultaneously until a window appears displaying “OSD Unlock”. Continue to hold the buttons down and the window toggles to “OSD Lock”.
2. To unlock the OSD, repeat the procedure until the “OSD Unlock” is displayed.

To lock the power:
1. Press the menu and ▼ button simultaneously until a window displaying “power unlock” appears. Continue to hold the buttons until the “Power Lock”.
2. To unlock the power repeat the procedure until the “Power Unlock” is displayed.
OSD Control Options

<table>
<thead>
<tr>
<th>Control</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>Increases or decreases brightness <strong>Contrast</strong></td>
</tr>
<tr>
<td></td>
<td>Increases or decreases contrast <strong>H-Position</strong> Moves the screen left or right</td>
</tr>
<tr>
<td>V-Position</td>
<td>Moves the screen up or down</td>
</tr>
<tr>
<td>Phase</td>
<td>Increases or decreases the snow noise of the image after auto adjustment is made</td>
</tr>
<tr>
<td>Clock</td>
<td>The dot clock is fine-adjusted after auto adjust. <strong>Sharpness</strong> Adjusts sharpness of video</td>
</tr>
<tr>
<td><strong>OSD H-Position</strong></td>
<td>Moves the OSD position horizontally on the screen. When the ▲ button is pressed, the OSD control menu will move to the right side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the left side.</td>
</tr>
<tr>
<td><strong>OSD V-Position</strong></td>
<td>Moves the OSD position vertically on the screen. When the ▲ button is pressed, the OSD control menu will move to the top side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the lower side.</td>
</tr>
<tr>
<td><strong>OSD Time</strong></td>
<td>Adjusts the amount of the OSD menu is displayed.</td>
</tr>
<tr>
<td>Color Balance</td>
<td>Press ▲ or ▼ to select 9300, 6500, 5500, 7500 and USER. Only when selecting USER can you make adjustments to the R/G/B content. Press Enter to restore to factory default setting.</td>
</tr>
<tr>
<td>Auto-Adjust</td>
<td>Press Auto to enable this function. The Auto-Adjust will automatically adjust V-Position, H-Position, Clock and Clock-Phase.</td>
</tr>
<tr>
<td>Recall Defaults</td>
<td>Returns the monitor to its default settings.</td>
</tr>
<tr>
<td><strong>OSD Language</strong></td>
<td>Select from English, French, German, Spanish and Japanese. <strong>Information Description</strong> Indicates the current resolution, H-Frequency and V-Frequency.</td>
</tr>
</tbody>
</table>
Preset Modes

To reduce the need for adjustment for different modes, the monitor has default setting modes that are most commonly used as given in the table below. If any of these display modes are detected, the monitor automatically adjusts the picture size and centering. When none of the mode is matched, the user can store their preferred modes in the user modes. The monitor is capable of storing up to 7 user modes. The only condition to store as a user mode is the new display information must have 1 KHz difference for horizontal frequency or 1 Hz for vertical frequency or the sync signal polarities are different from the default modes.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Resolution</th>
<th>(KHz)</th>
<th>(MHz)</th>
<th>H. Freq.</th>
<th>Band Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VGA 640 x 350 70 Hz</td>
<td>31.47</td>
<td>25.175</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>VGA 720 x 400 70 Hz</td>
<td>31.47</td>
<td>28.322</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>3</td>
<td>VGA 640 x 480 60 Hz</td>
<td>31.47</td>
<td>25.175</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>MAC 640 x 480 66 Hz</td>
<td>35.00</td>
<td>30.34</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>VESA 640 x 480 72 Hz</td>
<td>37.86</td>
<td>31.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>VESA 640 x 480 75 Hz</td>
<td>37.50</td>
<td>31.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>VESA 800 x 600 56 Hz</td>
<td>35.16</td>
<td>36</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>8</td>
<td>VESA 800 x 600 60 Hz</td>
<td>37.88</td>
<td>40</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>9</td>
<td>VESA 800 x 600 75 Hz</td>
<td>46.88</td>
<td>49.5</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>10</td>
<td>VESA 800 x 600 72 Hz</td>
<td>48.08</td>
<td>50</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>11</td>
<td>MAC 832 x 624 75 Hz</td>
<td>49.72</td>
<td>57.283</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>VESA 1024 x 768 60 Hz</td>
<td>48.36</td>
<td>65</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>SUN 1024 x 768 65 Hz</td>
<td>52.45</td>
<td>70.49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>VESA 1024 x 768 70 Hz</td>
<td>56.48</td>
<td>75</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>VESA 1024 x 768 75 Hz</td>
<td>60.02</td>
<td>78.75</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>
Power Management System

The monitor is equipped with the power management function which automatically reduces the power consumption when not in use.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>&lt;13W</td>
</tr>
<tr>
<td>Sleep</td>
<td>&lt;3W</td>
</tr>
<tr>
<td>Off</td>
<td>&lt;1W</td>
</tr>
</tbody>
</table>

It is recommended to switch the monitor off when it is not in use for a long time.

**NOTE:** The monitor automatically goes through the Power Management System (PMS) steps when it is idle. To release the monitor from PMS condition, press any key on the keyboard, move the mouse or touch the touchscreen. In order for the touchscreen to bring the monitor from the power management system, the touchscreen function must be fully operational.

Display Angle

For viewing clarity, the LCD can tilt forward (up to -5 degrees) or backward (up to 90 degrees.)

**CAUTION** In order to protect the LCD, be sure to hold the base when adjusting the LCD, and do not touch the screen.
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 Projected-Capacitive touch technologies enable several gestures that support single and multiple contacts. Refer to the Microsoft Website http://msdn.microsoft.com/en-us/library/dd940543 on the various gestures that are supported in Windows 7.
If you are experiencing trouble with your touchmonitor, refer to the following table. If the problem persists, please contact your local dealer or the Elo service center.

## Solutions to Common Problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Suggestion(s)</th>
</tr>
</thead>
</table>
| The monitor does not respond when turning on the system. | 1. Check that the monitor’s Power Switch is on.  
2. Turn off the power and check the monitor’s DC power cord and signal cable for proper connection. |
| Characters on the screen are dim     | Refer to the About Touchmonitor Adjustments section to adjust the brightness. |
| The video is blank                   | 1. During operation, the monitor screen may automatically turn off as a result of the Power Saving feature. Press any key to see if the screen reappears.  
2. Refer to the About Touchmonitor Adjustments section to adjust the brightness. |
| Screen flashes when initialized      | Turn the monitor off then turn it on again.                                  |
| “Out of Range” display               | Reconfigure the resolution of your computer to make one of the monitor’s supported video mode (see Appendix C). See Appendix A for more information on resolution. |
| Touch doesn’t work                   | Make sure the touch cable is securely attached at both ends.                 |
The native resolution of a monitor is the resolution level at which the LCD panel is designed to perform best. For the LCD touchmonitor, the native resolution is 1024 x 768 for the 15 inch size. In almost all cases, screen images look best when viewed at their native resolution. The resolution setting of a monitor can be lowered but not increased.

The native resolution of an LCD is the actual number of pixels horizontally in the LCD by the number of pixels vertically in the LCD. LCD resolution is usually represented by the following symbols:

<table>
<thead>
<tr>
<th>Input Video</th>
<th>15&quot; LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480 (VGA)</td>
<td>Transforms input format to 1024 x 768</td>
</tr>
<tr>
<td>800 x 600 (SVGA)</td>
<td>Transforms input format to 1024 x 768</td>
</tr>
<tr>
<td>1024 x 768 (XGA)</td>
<td>Displays in Native Resolution</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VGA</th>
<th>640 x 480</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVGA</td>
<td>800 x 600</td>
</tr>
<tr>
<td>XGA</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>UXGA</td>
<td>1600 x 1200</td>
</tr>
</tbody>
</table>
As an example, a SVGA resolution LCD panel has 800 pixels horizontally by 600 pixels vertically. Input video is also represented by the same terms. XGA input video has a format of 1024 pixels horizontally by 768 pixels vertically. When the input pixels contained in the video input format match the native resolution of the panel, there is a one to one correspondence of mapping of input video pixels to LCD pixels. As an example, the pixel in column 45 and row 26 of the input video is in column 45 and row 26 of the LCD. For the case when the input video is at a lower resolution than the native resolution of the LCD, the direct correspondence between the video pixels and the LCD pixels is lost. The LCD controller can compute the correspondence between video pixels and LCD pixels using algorithms contained on its controller. The accuracy of the algorithms determines the fidelity of conversion of video pixels to LCD pixels. Poor fidelity conversion can result in artifacts in the LCD displayed image such as varying width characters.
This manual contains information that is important for the proper setup and maintenance of your touchmonitor. Before setting up and powering on your new touchmonitor, read through this manual, especially Chapter 2 (Installation), and Chapter 3 (Operation).

1. To reduce the risk of electric shock, follow all safety notices and never open the touchmonitor case.
2. Turn off the product before cleaning.
3. 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.
4. It is important that your touchmonitor remains dry. Do not pour liquid into or onto your touchmonitor. If your touchmonitor becomes wet do not attempt to repair it yourself.

Ensure that your installation/setup is designed/equipped to maintain operating temperature within the specified operating conditions (refer to the section TouchMonitor Specifications).
Care and Handling of Your Touchmonitor

The following tips will help keep your touchmonitor functioning at the optimal level.

• To avoid risk of electric shock, do not disassemble the brick power supply or display unit cabinet. The unit is not user serviceable. Remember to unplug the display unit from the power outlet before cleaning.

• Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air.

• To clean the display unit cabinet, use a cloth lightly dampened with a mild detergent.

• Avoid getting liquids inside your touchmonitor. 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. Put the cleaner on a clean cloth and wipe the touchscreen. Never apply the cleaner directly to the touchscreen.

Warning

This product consists of devices that may contain mercury, which must be recycled or disposed of in accordance with local, state, or federal laws. (Within this system, the backlight lamps in the monitor display contain mercury.)

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.
APPENDIX

C

TECHNICAL SPECIFICATIONS
**Touchmonitor Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>1515L</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Display</td>
<td>Active Matrix TFT LCD with LED backlighting</td>
</tr>
<tr>
<td>Display Size</td>
<td>304.(H) x 228.(V) mm</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>0.297(H) x 0.297(V) mm</td>
</tr>
<tr>
<td>Display Mode</td>
<td>VGA 640 x 350 (70Hz)</td>
</tr>
<tr>
<td></td>
<td>VGA 720 x 400 (70Hz)</td>
</tr>
<tr>
<td></td>
<td>VGA 640 x 480 (60 / 72 / 75Hz)</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>XGA 1024 x 768 (60 / 70 / 75Hz)</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>XGA (1024 x 768) at 75Hz maximum</td>
</tr>
<tr>
<td>Brightness</td>
<td>700 : 1 (typical)</td>
</tr>
<tr>
<td>Non Touch:</td>
<td>typical 250 Cd/m²; Min 200 Cd/m²</td>
</tr>
<tr>
<td>AccuTouch:</td>
<td>typical 200 Cd/m²; Min 150 Cd/m²</td>
</tr>
<tr>
<td>IntelliTouch:</td>
<td>typical 225 Cd/m²; Min 170 Cd/m²</td>
</tr>
<tr>
<td>Projected-Capacitive:</td>
<td>typical 225 Cd/m²; Min 170 Cd/m²</td>
</tr>
<tr>
<td>Response Time</td>
<td>16ms</td>
</tr>
<tr>
<td>Display Color</td>
<td>Vertical 140° total</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>Horizontal 160° total</td>
</tr>
<tr>
<td>Input Signal</td>
<td>Video Sync</td>
</tr>
<tr>
<td>Signal Connector</td>
<td>TTL Positive or Negative</td>
</tr>
<tr>
<td></td>
<td>Mini D-Sub 15 pin</td>
</tr>
<tr>
<td>Side Controls</td>
<td>Menu, ▲, ▼, Select, Power</td>
</tr>
<tr>
<td>OSD</td>
<td>Contrast, Brightness, H-Position, V-Position,</td>
</tr>
<tr>
<td></td>
<td>Color Temperature, Phase, Clock, OSD Time, Recall,</td>
</tr>
<tr>
<td></td>
<td>Language: English, French, German, Spanish, Japanese</td>
</tr>
<tr>
<td></td>
<td>DDC 2B</td>
</tr>
<tr>
<td>Plug &amp; Play</td>
<td>AccuTouch/IntelliTouch/Projected-Capacitive</td>
</tr>
<tr>
<td>Touch Panel (optional)</td>
<td>Input AC 100-240V, 50-60Hz</td>
</tr>
<tr>
<td>Power Adapter</td>
<td>20% ~ 80% (No Condensation)</td>
</tr>
<tr>
<td>Operating Conditions</td>
<td>To 12,000 Feet</td>
</tr>
<tr>
<td>Humidity</td>
<td>~ 95% (No Condensation)</td>
</tr>
<tr>
<td>Altitude</td>
<td>372.8 x 310 x 175mm</td>
</tr>
<tr>
<td>Temperature</td>
<td>4.38Kg</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>UL, C-UL, FCC-B, CE, VCCI, C-Tick, MPRII , S(Semko)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>Note: Use a UL and IEC certified external AC adapter with a limited power source(marked LPS) rated 12 Vdc, 2.5A.</td>
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</tbody>
</table>
I. Electrical Safety Information:

A) 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.

B) 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.

C) 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

A) 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 the 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

B) 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.

CAN ICES3(B)/NMB3(B)

This device complies with Industry Canada’s license-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes :
(1) l’appareil ne doit pas produire de brouillage; et
(2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

C) 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 2014/30/EU indicated in European Standard EN 55032 Class B and the Low Voltage Directive 2014/30/EU as indicated in European Standard EN 60950-1.

D) 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.
   b) 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.
FCC Declaration of Conformity

Per FCC 47 CFR FCC Part15 subpart B Section 2.1077(a)
In accordance with FCC Rules and Regulations

Model Number: ET1515L/ET1715L/ET1915L Series
Equipment Category: Information Technology and Telecommunications Equipment
Equipment Class: Commercial and Light Industrial
Product Name: Monitor
Manufacturer: Elo Touch Solutions, Inc.
670 N. McCarthy Blvd.
Suite 100
Milpitas, CA 95035
www.elotouch.com

Trademark: elo

Declaration:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Kevin Huang
Director, Systems Engineering
Elo Touch Solutions, Inc.
III. Agency Certifications

The following certifications have been issued for this monitor:

- Australia C-Tick
- Canada cUL
- Canada IC
- China CCC (Asia models only)
- China RoHS (Asia models only)
- Europe CE
- Japan VCCI
- United States FCC
- United States UL
- Argentina S-mark
- Taiwan BSMI (Asia models only)
- Korea MIC (Asia models only)

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
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 components of the product 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 (30) 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 (30) 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 NONINFRINGEMENT, 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.
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:

<table>
<thead>
<tr>
<th>North America</th>
<th>Tel 800-ELO-TOUCH</th>
<th>Europe</th>
<th>Tel +32(0)(16)704 500</th>
<th>Asia-Pacific</th>
<th>Tel +86 (21) 3329 1385</th>
<th>Latin America</th>
<th>Tel +1 786-923-0251</th>
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<tbody>
<tr>
<td>Elo Touch Solutions</td>
<td>Tel +1-408-597-8000</td>
<td>Fax +1-408-597-8050</td>
<td><a href="mailto:customerservice@elotouch.com">customerservice@elotouch.com</a></td>
<td><a href="mailto:eolasales@elotouch.com">eolasales@elotouch.com</a></td>
<td><a href="http://www.elotouch.com.cn">www.elotouch.com.cn</a></td>
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<tr>
<td>670 N. McCarthy Blvd</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
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