USER MANUAL

Elo Touch Solutions
10.1-inch Open Frame
ET1099L Touchscreen



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Table of Contents

Section 1: Introduction 4

Section 2: Installation 4

Section 3: Mounting 7

Section 4: Operation 9

Section 5: Technical Support 14

Section 6: Safety & Maintenance 16

Section 7: Regulatory Information 17

Section 8: Warranty Information 21

Section 1: Introduction

Product Description

This 10.1-inch ET1099L touchscreen display combines Elo's latest developments in touch technology and display design with the reliability for use in full outdoor environments. It is designed to meet EN62368-1 Part 22 when properly mounted.

This 10.1-inch ET1099 touchscreen display incorporates a 1280x800 resolution, 1000nit brightness LCD panel to provide high quality display performance. The LED backlight significantly reduces power consumption and eliminates mercury (compared to CCFL-backlit panels). The ambient light sensor on the front of the screen offers added functionality to adapt the brightness setting to the environmental lighting conditions, helping to ensure the best user experience in any exterior setting.

With a vandal-resistant (IK9) anti-glare screen, the display is designed for optimal operation in harsh field conditions. The USB 5-point touch operates even if water or other elements are on the screen, and this product also supports various other touch capabilities: RS232 Touch with 2 touches (via a separate optional cable kit: E610090), and 2 touches with up to 6mm of additional cover glass on top of the touchscreen.

The addition of built-in thermal and humidity sensors and 2 external fans help to prevent the display from overheating. The touchscreen display is also equipped with a Real Time Clock which gives you the ability to plan a power schedule.

Other features that enhance this LCD monitor's display performance are Plug & Play compatibility with Windows, Android, or Linux operating systems, tethered remote on-screen display (OSD) controls for easy access when integrated, simplified flush mounting design for easy IP66 and NEMA4X sealing, flexible flush, VESA, and touch thru mounting options. The display supports 12V to 24V DC power input making it very easy to integrate with your current power solution.

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 Section 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 touchscreen, read through this manual, especially the Installation, Mounting, and Operation Sections.

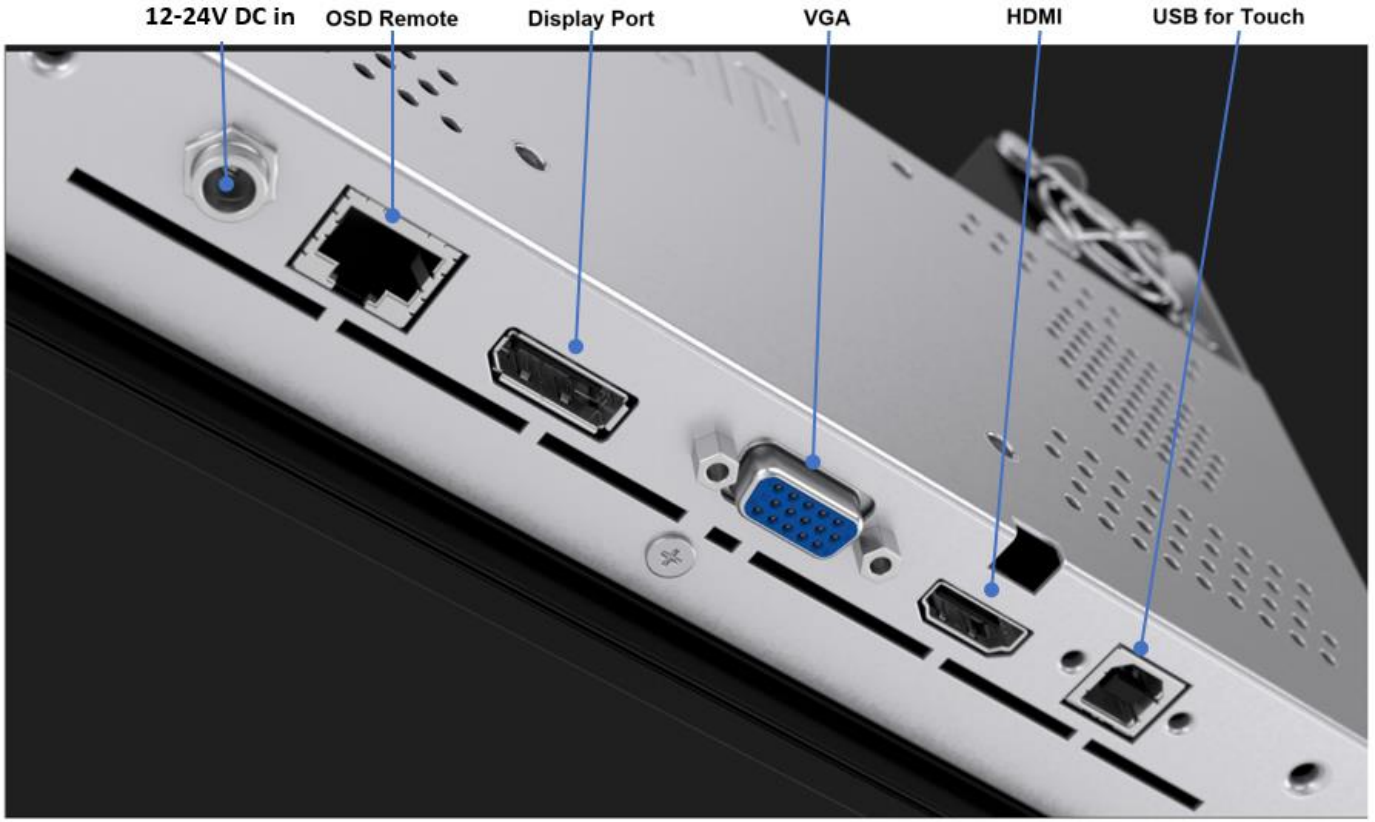
Section 2: Installation

Unpacking the Touchscreen Display

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

- 10.1-inch Open Frame Touchscreen
- Quick Install Guide
- HDMI cable (screw-lock type)
- EEI label
- VGA cable (screw-lock type)
- USB cable (screw-lock type)
- Flush Mount Brackets w/Screws
- OSD remote

Connector Panel & Interfaces



Touchscreen Display Connections

1. Connect the HDMI, DP, or VGA video cables between the monitor's HDMI, DP, or VGA input connector and your HDMI/DP/VGA video source. Tighten the video cable's screws to prevent accidental disconnection when using the HDMI or VGA connector.

2. Connect the USB touch cable between the monitor's USB connector and your PC's USB port, or connect the VGA Y-cable (optional cable kit E810917) between the monitor's VGA connector and your PC's COM (Serial) port. Tighten the USB cable's screws to prevent accidental disconnection.

3. Connect a 12 to 24V DC power supply to the monitor's input power jack. Elo offers a 12VDC power adapter with locking connector and regional power cable kits separately.

4. The touchscreen display ships in an ON state, video should be displayed on your monitor once the cables are connected.

Installing the Touch Technology Software Drivers

When using USB touch, no additional drivers are required for your projected-capacitive touchscreen display with Windows 7 and 10 or later operating systems, because it uses Windows HID drivers. If you want to use RS232 touch, follow the below steps to install the Elo touch driver.

To download the latest touch drivers:

1. Visit www.elotouch.com/Support/Downloads/Driver/DriverDownload/Default.aspx
2. Select the “Touch Drivers” from the “Product Category” dropdown menu.
3. Select the “Operating System” from the “Operating System” dropdown menu.
4. Click on the driver version required for your touchscreen display.

Non-Microsoft Windows operating system versions suggested below:

Linux Ubuntu: 18.04 LTS
Mac: OS BIG SUR 11.2
Chrome: 78.0.3904.106
Android: 7.10/8.10

Section 3: Mounting

Flush Mount

Flush-mount Bracket Installation Notes:

See dimensional drawing for the exact details of the recommended enclosure panel opening dimensions.

1. Place the 10.1-inch 1099 touchscreen display into your enclosure panel opening.

2. Attach flush mounting brackets (all four sides) with M4-5mm bracket screws (included) to secure the touchscreen onto the enclosure panel. Adjust the touchscreen as close as possible to flush with the front of the enclosure panel before tightening M4 bracket screws. A socket wrench is recommended if clearance is limited.

3. Tighten the M4-6mm clamping screws on the **short** mounting brackets to bring the touchscreen glass completely flush with the customer panel, then tighten the M4-6 clamping screws on the **long** mounting brackets, compressing the sealing gasket, and ensuring a watertight seal to IP66 and NEMA4x standards.

Please ensure 2” clearance behind the touch screen display for airflow.

1



2

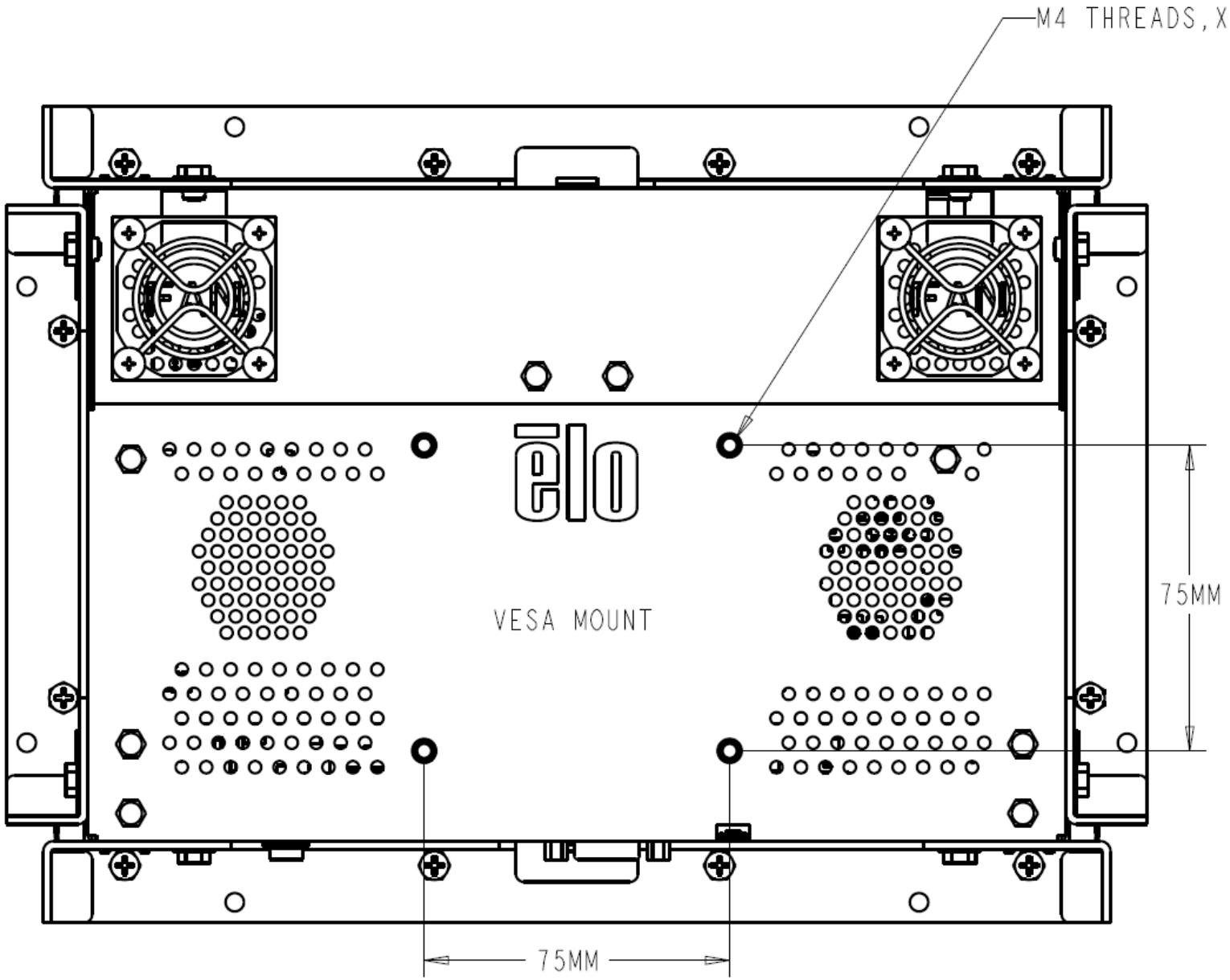


3



Rear VESA Mount

A four-hole mounting pattern for M4x8mm screws is provided on the rear of the monitor for 75x75mm VESA mounting. The VESA FDMI-compliant counting is coded: VESA MIS-E. Please ensure 2” clearance behind the touch screen display for ventilation.



Section 4: Operation

Power

The touchscreen display ships in the ON state.

To turn the touchscreen display on or off, attach the OSD remote via the RJ45 connector and press the touchscreen display power button on the OSD remote once. The power status LED on the OSD remote functions according to the following table.

Touchscreen Display/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 power consumption, disconnect the AC power cable from the monitor when long periods of disuse are planned.

Touch

Your touchscreen display 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).

Projected Capacitive Touch Technology

When connected to Windows 7, and 10 or later computers, the touchscreen display can report 5 simultaneous touches. When connected to Windows XP computers, the touchscreen display reports single touch.

No additional drivers are required for this technology to work with Windows 7, and 10 or later, it uses Windows HID drivers.
Please refer to Chapter 2, Section “Installing the Touch Technology Software Drivers” to find instructions to download touch drivers for RS232 touch with 2 touches.

Gesture Support

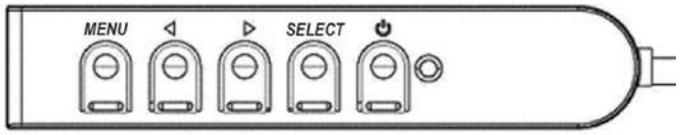
The Projected Capacitive Touch enables several gestures that support single and multiple touches. Refer to the Microsoft Website https://docs.microsoft.com/en-us/windows/win32/wintouch/windows-touch-gestures-overview on the various gestures that are supported in Windows 7, and 10.

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.

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 touchscreen display 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 monitor’s displayed image. These adjustments are “remembered” by the touchscreen display. 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 Miscellaneous submenu	Decrease value of selected parameter / select previous menu item
▶	Display OSD Luminance submenu	Increase value of selected parameter / select next menu item
Select	Display Video Priority 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/Light sensor	Increase/decrease monitor brightness. Default: Light sensor on, if the light sensor is disable, default brightness is set to 100%
Contrast	Increase/decrease monitor contrast. Default: best gray-shade performance
Light Sensor	Automatically adjust brightness setting based on ambient light.
Clock	Allow fine adjustments of the panel's pixel dot clock. *Only applicable for VGA input video.*
Phase	Allow fine adjustments of the panel's pixel dot clock phase. *Only applicable for VGA input video.*
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. *Only applicable for VGA input video.*
H-position	Move the image horizontally on the display in single-pixel increments. Default: centered *Only applicable for VGA input video.*
V-position	Move the image vertically on the display in single-pixel increments. Default: centered Only applicable for VGA input video.
Aspect Ratio	Switch the scaling method between Fill Screen, Fill Aspect Ratio, and Direct Output Default: Fill Screen Fill Screen – scale the X- and Y-dimensions of the input video (up or down as needed) to the display's native resolution. Fill Aspect Ratio – Assuming a landscape orientation, and an input video with aspect ratio smaller than 16:9, scale the Y-dimension of the input video (up or down as needed) to the display's Y-resolution, and scale 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). Direct Output – Assuming a landscape orientation, and an input video is under the native resolution (1920x1080), will keep display center and fills the rest of the display with equal black bars on four sides.
Sharpness	Adjust sharpness of the displayed images. Default: no sharpness adjustment. *Only applicable at non-native input video resolutions.*

Color	Select the display's color temperature. The available color temperatures are 9300K, 7500K, 6500K, 5500K, Color Enhance, and User Preset. If the User Preset option is selected, the user can change the color temperature by changing individual R, G, and B gains on a scale from 0 to 100. Default: User Preset with R, G, and B all set to 100.

Parameter	Available Adjustment
OSD H-Position	Adjust the horizontal location of the OSD menus on the display. Default: centered.
OSD V-Position	Adjust the vertical location of the OSD menus on the display. Default: centered.
OSD Timeout	Adjust how long a period of OSD button inactivity the touchscreen display will wait before closing the OSD. The adjustable range is between 5 and 60 seconds. Default: 15 seconds.
OSD Language	Select which language the OSD information is displayed in. The available languages are English, French, Italian, German, Spanish, Simplified Chinese, Traditional Chinese, and Japanese. Default: English.
OSD Rotation	Select "Landscape" or "Portrait" to switch OSD between 0° and 90° clockwise.
Recall Defaults	Select "Recall Defaults" restores all factory default settings for OSD-adjustable parameters (except OSD Language) and for Preset Video Mode timings.
Video Priority	The monitor continually scans for active video on the HDMI, VGA, and Display port connectors. This adjustment selects which of those input ports should be given priority to be displayed. The options are HDMI Priority, DP Priority, VGA Priority Default: HDMI Priority
Touch on Sleep	Touch function enabled/disabled when the monitor goes into the sleep mode. Default: On
Touch Through	Switch to support two touches when adding a 6mm thickness glass in front of the original touch screen with no air gap. Default: Off
Touch Interface	Switch to support two touches via RS232 (requires optional cable and installation of the latest Elo driver) The options are USB, RS232. Default: USB.
Real Time Clock	Manage power schedule and system clock/daylight saving. Default: GMT time

All touchscreen display 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 touchscreen display is unplugged or powered off and on. If there is a power failure, the touchscreen display settings will not default to the factory specifications.

OSD and Power Lockouts

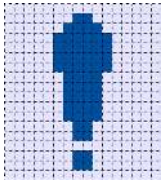
Press and hold the “Menu” and “Down” buttons for two seconds to enable/disable the OSD Locking feature. When the OSD Locking is enabled, pressing any of the Menu, Up, Down, or Select keys will have no effect on the system.

Press and hold the “Menu” and “Up” 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.

Temperature Control

The monitor contains a thermal sensor that provides the user with real-time temperature readings. This reading can be found by opening the OSD menu: Information ► System Temperature. . If the monitor reaches the temperature trigger point, it will turn on the internal fans with different speed to dissipate heat until the internal temperature is back to 30°C. If the temperature continues to rise and reaches 60°C, the monitor will enter into Thermal Protection Mode.

	Temperature Trigger point	Shielding fans x2
1	30 – 45 °C	20%, 3100rpm
2	45 – 50 °C	50%, 4600rpm
3	50 – 55 °C	80%, 7800rpm
4	55 – 70 °C	100%, 10000rpm



If the temperature exceeds 60 °C, the following icon will appear in the Main Menu. This will indicate that the Thermal Protection Mode is active. If the display internal temperature is not reduced below 65 °C for 5 minutes, the display will automatically turn off 60 seconds to prevent permanent damage.

Mounting Guidelines

When choosing a mounting location and orientation, consider the following guidelines.

1. The ambient light sensor may not function properly if the portrait orientation is upside-down, a focused light source is close to the sensor window, or the sensor window is blocked. Reference the dimensional drawing for details on light sensor location.
2. Try to avoid mounting the product in direct sunlight if possible. Use overhangs or orient away from the sun to reduce environmental stress on the product and prolong its life.

Section 5: Technical Support

If you are experiencing trouble with your touchscreen display, refer to the following suggestions.

If the problem persists, please contact your local dealer, or contact Elo 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 touchscreen display 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. Check if Light sensor is on and adjusting for the ambient lighting conditions. Check if the display is overheating and running in Thermal Protection Mode..
Monitor display is blank	If the Power Status LED is blinking, the monitor 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 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 touchscreen display (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 touchscreen display (see website for specifications) Use the Auto Adjust function in the OSD Check if color setting is “User Preset”
Touch functionality doesn’t work	Verify your PC has the latest Elo drivers installed Perform the calibration routine provided with the latest Elo drivers Check if Touch Interface is set up correctly
The OSD buttons or power button	does not respond when pressed

	Check to see if the OSD lock or power lock functions is on
Can't wake on touch	Check to see if the OSD touch on sleep function is disabled Check that there are no loose cable connections
Only have two touches	Check to see if the OSD touch through function is on Confirm that you are using RS232 touch or USB touch
Fans do not work	Check there are no loose cable connections between fans and the unit.

Image Sticking

What is Image Sticking? What Causes Image Sticking?

Image persistence, image burn-in, and image sticking are terms used to describe LCD image retention. LCD image retention occurs when a fixed pattern is displayed over a prolonged period of time. The fixed pattern causes a parasitic capacitance to build up within the LCD component, which prevents the liquid crystal molecules from returning to their normal relaxed state.

All LCDs/CRTs and color plasma displays are susceptible to image retention, at varying degrees. Phosphor based display devices, such as CRTs and color plasma displays are most susceptible, and image retention on phosphor-based devices is often irreversible. Transmissive devices, such as LCDs are less susceptible, and in most cases LCD image retention can be reversed.

The rate of image sticking depends on the image pattern, duration of fixed image, the temperature, and production variations. Likewise, the rate of diffusion of the image sticking (recovery time) also depends on these factors.

What Can Be Done about It?

The best way to avoid image burn-in is to limit the amount of static content on the display. Image sticking may be avoided by turning the display off periodically for a period of time between 2 to 4 hours.

To reduce the possibility of image retention, we recommend:

- Displaying alternating black/white images for 2 to 4 hours
- Using a screen saver when the touchscreen is not in use

Image retention caused by static (non-moving) images displayed for lengthy periods (image burn-in) is not covered under Elo warranty.

Technical Assistance

Technical Specifications

visit **www.elotouch.com/products**
for technical specifications for this device

Support

visit **www.elotouch.com/support** for technical support

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

Section 6: Safety & Maintenance

Safety

- To avoid risk of electric shock, follow all safety notices and do not disassemble the touchscreen display. They are not user-serviceable.
- The slots located on the back of the touchscreen display case are for ventilation. Do not block or insert anything inside the ventilation slots.
- A three-wire, grounding power cord plug only fits into a grounded outlet. Do not fit or modify the plug into an outlet that has not been configured for this purpose. Do not use a damaged power cord. Use of an unauthorized power cord might invalidate your warranty. Optional power kit includes power brick and power cord are sold separately.
- Ensure that your installation is equipped to maintain the specified environmental conditions listed in the Technical Specifications chapter.
- The equipment power supply cord shall be connected well with earthing connection.
- Risk of explosion if battery is replaced with incorrect type.
- Dispose of used batteries according to instructions.

Care and Handling

The following tips will help keep your touchscreen display 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.

For cleaning methods specific to COVID-19, reference: https://www.elotouch.com/support/technical-support/cleaning

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. Elo has put in place recycling arrangements in certain parts of the world. For information on how you can access these arrangements, please visit E-Waste Recycling Program | Elo® Official Website (elotouch.com).

Section 7: Regulatory Information

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.

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 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.

This device complies with Part 15C of 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, including interference that may cause undesired operation of the device.

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.

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 as indicated in European Standard EN 55032 Class B and the Low Voltage Directive 2014/35/EU as indicated in European Standard EN 62368-1.

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

1. In order to meet emission and immunity requirements, the user must observe the following:
   a. Use only the provided I/O cables to connect this digital device with any computer.
   b. To ensure compliance, use only the provided manufacturer's approved line cord.
   c. The user is cautioned that changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. If this equipment appears to cause interference with radio or television reception, or any other device:
   a. Verify as an emission source by turning the equipment off and on. If you determine that this equipment is causing the interference, try to correct the interference by using one or more of the following measures:
      i. Move the digital device away from the affected receiver.
      ii. Reposition (turn) the digital device with respect to the affected receiver.
      iii. Reorient the affected receiver's antenna.
      iv. Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.
      v. Disconnect and remove any I/O cables that the digital device does not use. (Unterminated I/O cables are a potential source of high RF emission levels.)
      vi. Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs.
      (Removing or cutting the line cord ground may increase RF emission levels and may also present a lethal shock hazard to the user.)

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

Agency Certifications

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

- Australia RCM
- Canada CUL, IC
- China CCC
- Europe CE TUV
- Japan VCCI
- Korea KCC
- Mexico NoM
- Taiwan BSMI
- United States FCC, UL
- International CB
- Russia EAC

Explanation of Markings

1. In accordance with the SJ/T11364-2014 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:-20 ℃ - 60 ℃
   Storage Temperature: -30 ℃ - 80 ℃
   Operating Humidity: 10% - 90% (non-condensing).
   Storage Humidity:10% - 95% (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.





Power Adapter Specifications

Electrical Ratings	
Input	100 - 240VAC, 50/60Hz
Output	12V DC, 6.67A, LPS (Power adapter needs to be UL approved)

Monitor Specifications

Electrical Ratings

Input	12–24V DC, 2A

Operating Conditions

Temperature	-20 °C to +60 °C
Humidity	10% - 90% (non-condensing)
Altitude	0 to3,048m

Storage Conditions

Temperature	-30 °C to +80 °C
Humidity	10% - 95% ((38.7 Deg maximum wet bulb temperature, non-condensing)
Altitude	0 to12,192m

21 December 2023

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:	ET1099L Series
Equipment Category:	Information Technology and Telecommunications Equipment
Equipment Class:	Commercial and Light Industrial
Product Name:	Touch Monitor
Manufacturer:	Elo Touch Solutions, Inc. 670 N. McCarthy Blvd. Suite 100 Milpitas, CA 95035 www.elotouch.com
Trademark:	

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.

Section 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 touchscreen display and their components is two 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 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 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.

Notes

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Americas
Tel +1 408 597 8000
elosales.na@elotouch.com

Europe (EMEA)
Tel + 32 16 930 136
EMEA.sales@elotouch.com

Asia-Pacific
Tel +86 (21) 3329 1385
EloAsia@elotouch.com

16081AEM0003

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