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## On Screen Display (OSD) Menu Functions

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To Display and Select the OSD Functions:

1. Press the Menu key to activate the OSD menu.
2. Use ► or ◀ to move upward or downward through the menu. Press the “Select” key, execute the function or enter the sub-menu.
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 15 seconds or depending on how long the timer is set via the OSD menu. The time ranges from 5 seconds to 60 seconds.

## On Screen Display (OSD) Lock/Unlock

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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 Unlocked”. Continue to hold the buttons until the window toggles to “OSD Locked”.
2. To unlock the the Power Locking Feature, repeat the procedure until the “OSD Unlocked” is displayed.

To lock the power:

1. Press the menu and ◀ button simultaneously until a window displaying “Power unlocked” appears. Continue to hold the buttons until the “Power Locked”.
2. To unlock the power repeat the procedure until the “Power Unlocked” is displayed.

## On Screen Display(OSD) Control Options

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Control	Description
<b>Auto-Adjust</b>	Select “Auto-Adjust” to enable this function. The Auto-Adjust will automatically adjust V-Position, H-Position, Clock and Phase.
<b>Luminance</b>	
· <b>Brightness</b>	Increases or decreases brightness
· <b>Contrast</b>	Increases or decreases contrast
<b>Image Setting</b>	
· <b>H-Position</b>	Moves the screen left or right
· <b>V-Position</b>	Moves the screen up or down
· <b>Clock</b>	The dot clock is fine-adjusted after auto adjust.
· <b>Phase</b>	Increases or decreases the video noise of the image after an auto adjustment is made.
<b>Color</b>	Press ► or ◀ to select 9300, 6500, 5500, 7500 and USER. Only when selecting USER can you make adjustments to the R/G/B content values.
<b>Audio</b>	
· <b>Mute</b>	Enable/Disable audio mute.
· <b>Volume</b>	Increase or decrease audio volume.
<b>OSD</b>	
· <b>OSD Rotation</b>	Adjusts the direction of OSD for Landscape and Portrait mode.
· <b>OSD Timeout</b>	Adjusts the amount of time of the OSD menu is displayed.
· <b>Language</b>	Select from English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese.
<b>Recall</b>	Returns the monitor to its default settings.
<b>Miscellaneous</b>	
· <b>Aspect ratio</b>	
· <b>Fill screen</b>	No matter what LCD aspect ratio, scales video so it fills the LCD with no over or under scan. Change video aspect ratio.
· <b>Fill to Aspect ratio</b>	Sets the height of video equal to the height of LCD. Video Aspect ratio is preserved. Black bars on left and right side of LCD screen may appear.
· <b>Sharpness</b>	Adjusts sharpness of video signals on a scale from 1 to 5 using 4 discrete steps.
<b>Exit</b>	Exits the OSD display.

## Preset Modes

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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 modes are 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 which 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.

<b>Resolution</b>	<b>Vertical Frequency</b>
720 x 350	70Hz (may not display at full screen)
720 x 400	70Hz
640 x 480	60 / 72 / 75Hz
800 x 600	56 / 60 / 72 / 75Hz
832 x 624	75Hz
1024 x 768	60 / 70 / 75Hz
1280 x 800	60Hz
1280 x 960	60Hz
1280 x 1024	60 / 75Hz
1360 x 768	60Hz
1366 x 768	60Hz
1440 x 900	60Hz
1600 x 1200	60Hz
1680 x 1050	60Hz

## Power Management System

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Mode	Power Consumption (12VDC input)
On	<42W
Sleep	<4W
Off	<2W

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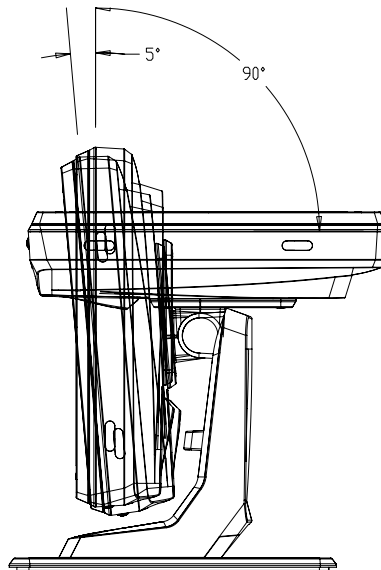
It is recommended to switch the monitor off when it is not in use for a long period of time.

**NOTE:** Complies to VESA Power Management (DPM) standards. To activate the monitor, press any key on the keyboard or move the mouse or touch the touchscreen. In order for the touchscreen to bring the monitor from the DPM system, the touchscreen function must be fully operational.

## Display Angle

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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.

## TROUBLESHOOTING

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

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Problem	Suggestion(s)
The monitor does not respond when turning on the system.	<ol style="list-style-type: none"> <li>1. Check that the monitor's Power Switch is on.</li> <li>2. Turn off the power and check the monitor's DC power cord and signal cable for proper connection.</li> </ol>
Characters on the screen are dim	Refer to the About Touchmonitor Adjustments section to adjust the brightness.
The video is blank	<ol style="list-style-type: none"> <li>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.</li> <li>2. Refer to the About Touchmonitor Adjustments section to adjust the brightness.</li> </ol>
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.

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## NATIVE RESOLUTION

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 1366 x 768 for the 15.6 inch and 18.5 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.

<b>Input Video</b>	<b>1519LM/1919LM monitor</b>
640 x 480 (VGA)	Transforms input format to 1366 x 768
800 x 600 (SVGA)	Transforms input format to 1366 x 768
1024 x 768 (SVGA)	Transforms input format to 1366 x 768
1366 x 768 (WXGA)	Displays in Native Resolution
1360 x 768	Displays with scaling

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:

<b>VGA</b>	<b>640 x 480</b>
<b>SVGA</b>	<b>800 x 600</b>
<b>XGA</b>	<b>1024 x 768</b>
<b>SXGA</b>	<b>1280 x 1024</b>
<b>UXGA</b>	<b>1600 x 1200</b>
<b>WXGA, avg</b>	<b>1280 x 800</b>
<b>SXGA-</b>	<b>1280 x 960</b>
<b>WXGA, max</b>	<b>1366 x 768</b>
<b>WXGA+</b>	<b>1440 x 900</b>
<b>WSXGA+</b>	<b>1680 x 1050</b>

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.

# B

## TOUCHMONITOR SAFETY

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.

# Care and Handling of Your Touchmonitor

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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.

# C

## TECHNICAL SPECIFICATIONS

# Touchmonitor Specifications

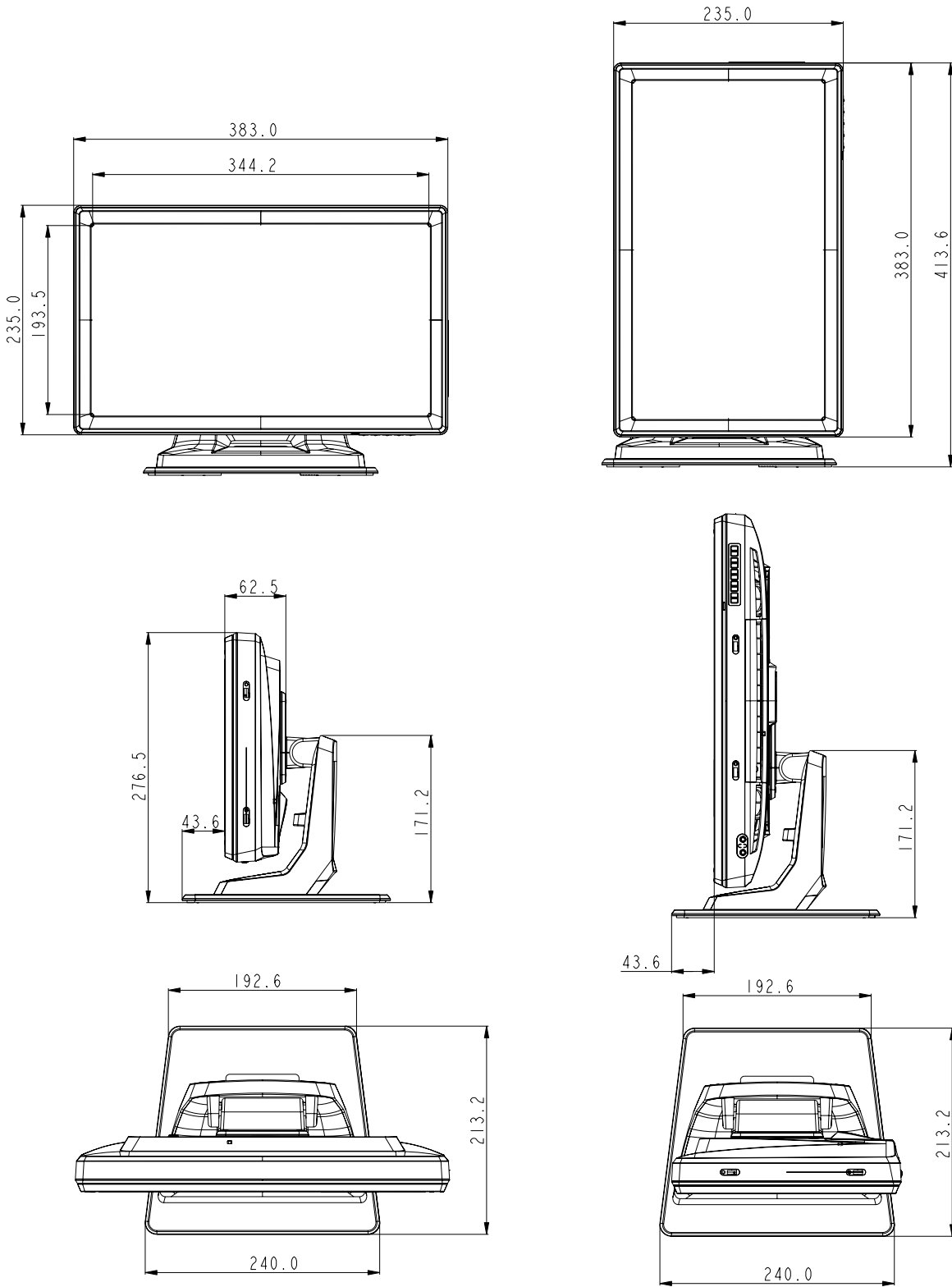
Model		1919LM
<b>LCD Display</b>		18.5" TFT Active Matrix Panel
<b>Display Size</b>		409.8 (H) x 230.4 (V) mm
<b>Pixel Pitch</b>		0.3 (H) x 0.3 (V) mm
<b>Native Resolution</b>		1366 x 768
<b>Display Mode</b>		720 x 350 (70Hz) - (may not display at full screen) 720 x 400 (70Hz) 640 x 480 (60 / 72 / 75Hz) 800 x 600 (56 / 60 / 72 / 75Hz) 832 x 624 (75Hz) 1024 x 768 (60 / 70 / 75Hz) 1280 x 800 (60Hz) 1280 x 960 (60Hz) 1280 x 1024 (60 / 75Hz) 1360 x 768 (60Hz) 1366 x 768 (60Hz) 1440 x 900 (60Hz) 1600 x 1200 (60Hz) 1680 x 1050 (60Hz)
<b>Contrast Ratio</b>		1000 : 1 (typical)
<b>Brightness</b>		LCD Monitor: typical 300 Cd/m <sup>2</sup> ; Min 240 Cd/m <sup>2</sup> AccuTouch: typical 240 Cd/m <sup>2</sup> ; Min 180 Cd/m <sup>2</sup> IntelliTouch: typical 270 Cd/m <sup>2</sup> ; Min 204 Cd/m <sup>2</sup> Acoustic Pulse Recognition: typical 270 Cd/m <sup>2</sup> ; Min 204 Cd/m <sup>2</sup>
<b>Response Time</b>		Tr+Tf=5ms (Typ.)
<b>Display Color</b>		16.7M
<b>Viewing Angle</b>		Vertical ±80° Horizontal ±85°
<b>Input Video</b>	Signal Type	R.G.B. Analog 0.7Vp-p, 75 ohm
	Sync	TTL Positive or Negative, Sync on green or Composite Sync.
	Connector	Mini D-Sub 15 pin ; DVI-D
<b>Bottom Controls</b>		Menu, ►, ◀, Select, Power
<b>Speakers</b>		Two 2W internal speakers
<b>Audio Input Connector</b>		3.5mm TRS jack
<b>Headphone Output connector</b>		Two 3.5m TRS jack
<b>OSD</b>		Contrast, Brightness, H-Position, V-Position, Color Temperature, Phase, Clock, OSD Time, Recall, Language: English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese
<b>Plug &amp; Play</b>		DDC 2B
<b>Touch Panel</b>		AccuTouch /IntelliTouch/Acoustic Pulse Recognition
<b>Power Adapter</b>		Input: AC 100-240V, 50-60Hz , Output: DC 12V/4A
<b>Operating Conditions</b>		Temperature 0°C ~ 40°C Humidity 20% ~ 80% (No Condensation) Altitude 0 to 3,000m
<b>Storage Conditions</b>		Temperature -20°C ~ 50°C Humidity 10% ~ 90% (No Condensation) Altitude 0 to 12,192m
<b>Dimensions (HxWxD)</b>		453.92 x 321.02 x 236.2mm
<b>Weight (Net)</b>		7.3Kg
<b>Certifications</b>		CUL, UL, CE, FCC, VCCI, ICES-003

# Touchmonitor Specifications

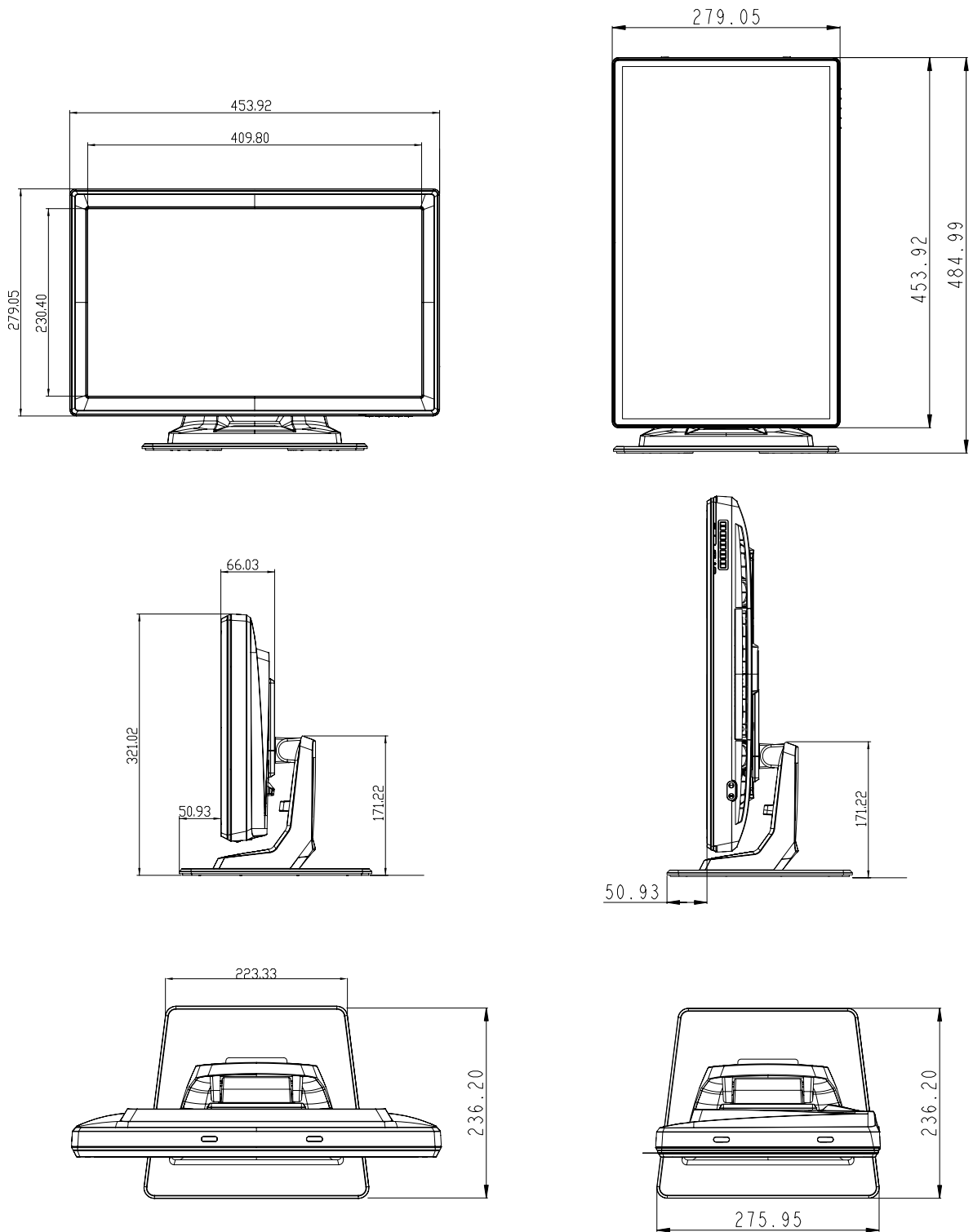
<b>Model</b>		<b>1519LM</b>
<b>LCD Display</b>		15.6" TFT Active Matrix Panel
<b>Display Size</b>		344.232 (H) x 193.536 (V) mm
<b>Pixel Pitch</b>		0.252 (H) x 0.252 (V) mm
<b>Native Resolution</b>		1366 x 768
<b>Display Mode</b>		720 x 350 (70Hz) - (may not display at full screen) 720 x 400 (70Hz) 640 x 480 (60 / 72 / 75Hz) 800 x 600 (56 / 60 / 72 / 75Hz) 832 x 624 (75Hz) 1024 x 768 (60 / 70 / 75Hz) 1280 x 800 (60Hz) 1280 x 960 (60Hz) 1280 x 1024 (60 / 75Hz) 1360 x 768 (60Hz) 1366 x 768 (60Hz) 1440 x 900 (60Hz) 1600 x 1200 (60Hz) 1680 x 1050 (60Hz)
<b>Contrast Ratio</b>		500 : 1 (typical)
<b>Brightness</b>		LCD Monitor: typical 250 Cd/m <sup>2</sup> ; Min 210 Cd/m <sup>2</sup> AccuTouch: typical 200 Cd/m <sup>2</sup> ; Min 157.5 Cd/m <sup>2</sup> IntelliTouch: typical 225 Cd/m <sup>2</sup> ; Min 178.5 Cd/m <sup>2</sup>
<b>Response Time</b>		Tr+Tf=8ms (Typ.)
<b>Display Color</b>		16.7M
<b>Viewing Angle</b>		Vertical -45°/+20° Horizontal ±45°
<b>Input Video</b>	Signal Type	R.G.B. Analog 0.7Vp-p, 75 ohm
	Sync	TTL Positive or Negative, Sync on green or Composite Sync.
	Connector	Mini D-Sub 15 pin; DVI-D
<b>Bottom Controls</b>		Menu, ►, ◀, Select, Power
<b>Speakers</b>		Two 2W internal speakers
<b>Audio Input Connector</b>		3.5mm TRS jack
<b>Headphone Output connector</b>		Two 3.5m TRS jack
<b>OSD</b>		Contrast, Brightness, H-Position, V-Position, Color Temperature, Phase, Clock, OSD Time, Recall, Language: English, French, Italian, German, Spanish, Japanese, Traditional Chinese and Simplified Chinese
<b>Plug &amp; Play</b>		DDC 2B
<b>Touch Panel</b>		AccuTouch /IntelliTouch
<b>Power Adapter</b>		Input: AC 100-240V, 50-60Hz , Output: DC 12V/4A
<b>Operating Conditions</b>	Temperature	0°C ~ 40°C
	Humidity	20% ~ 80% (No Condensation)
	Altitude	0 to 3,000m
<b>Storage Conditions</b>	Temperature	-20°C ~ 50°C
	Humidity	10% ~ 90% (No Condensation)
	Altitude	0 to 12,192m
<b>Dimensions (HxWxD)</b>		383.05 x 276.5 x 213.2mm
<b>Weight (Net)</b>		5.2Kg
<b>Certifications</b>		CUL, UL, CE, FCC, VCCI, ICES-003

# 15" LCD Touchmonitor (1519LM) Dimensions

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# 19" LCD Touchmonitor (1919LM) Dimensions



# REGULATORY INFORMATION

## 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 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.
- 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 Industrie Canada.
- 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 Electronic Equipment 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 2004/108/EC EMC and LVD 2006/95/EC indicated in European Standard EN 60601-1 and EN60601-1-2 (including EN55011 Class B)

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) Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.
    - iv) 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.)
    - v) Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs. (Removing or cutting the line cord ground may increase RF emission levels and may also present a lethal shock hazard to the user.)

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

### **III. Agency Certifications**

The following certifications have been issued for this monitor:

- Canada CUL
- Canada IC
- Europe CE
- Japan VCCI
- FCC
- United States UL

# WARRANTY

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.

Check out Elo's Website!

[www.elotouch.com](http://www.elotouch.com)

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Get the latest...

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- Product information

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  - Specifications

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  - News on upcoming events

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  - Press release

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  - Software drivers

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  - Touchmonitor Newsletter
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### ***Getting in Touch with Elo***

To find out more about Elo's extensive range of touch solutions, visit our Website at [www.elotouch.com](http://www.elotouch.com) or simply call the office nearest you:

#### North America

Elo TouchSystems  
301 Constitution Drive,  
Menlo Park, CA 94025  
USA

(800) ELO-TOUCH  
(800-557-1458)  
Tel 650-361-4800  
Fax 650-361-4722  
[customerservice@elotouch.com](mailto:customerservice@elotouch.com)

#### Germany

Tyco Electronics Raychem GmbH  
(Elo TouchSystems Division)  
Finsinger Feld 1  
D-85521 Ottobrunn  
Germany

Tel +49(0)(89)60822-0  
Fax +49(0)(89)60822-180  
[elosales@elotouch.com](mailto:elosales@elotouch.com)

#### Belgium

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(Elo TouchSystems Division)  
Diestsesteenweg 692  
B-3010 Kessel-Lo  
Belgium

Tel +32(0)(16)35-2100  
Fax +32(0)(16)35-2101  
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#### Asian-Pacific

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Fax +81(45)478-2180  
[www.tps.co.jp](http://www.tps.co.jp)

