



## 2239L 22" Open-Frame Wide-Aspect LCD Touchmonitor

**Tyco Electronics' Elo TouchSystems open-frame touchmonitor series features the 2239L** that delivers a cost-effective touch solution for OEMs and systems integrators, and complements Elo's expanded family of touch solutions for gaming and amusement, retail self-service and kiosk applications. This compact 3000-series touchmonitor is "designed for touch", with Elo's proven expertise and reliability built-in, not added as an afterthought by altering an existing monitor.

The 2239L features a brilliant wide-viewing-angle LCD panel to instantly grab and hold the user's attention, whether they are checking out retail goods with a self-service kiosk or playing games in a casino or arcade. Because the enclosure is controlled by Elo's specifications and tooling, Elo's open-frame monitors have a long-lasting product cycle, which is important to maintain continuity through all phases of project rollouts and servicing. The 2239L uses clear-glass IntelliTouch surface-wave technology to deliver optical quality, durability, and drift-free stability. It also features a unique, injection-molded bezel with a virtually invisible watertight seal, making it a good choice for the rigors of public use. Narrow borders, multiple mounting options, and a dual serial/USB touch interface add to the versatility of the 2239L. Worldwide agency approvals, as outlined on the back side of this sheet, cover the entire monitor that is designed, built and supported by Elo TouchSystems, a true single-source supplier.

The 2239L is available with a choice of the innovative Elo TouchSystems APR (Acoustic Pulse Recognition), IntelliTouch surface acoustic wave, and surface-capacitive touch technologies. The comprehensive range of features

includes analog and digital interfaces, multi-lingual on-screen display (OSD), mounting VESA standard, mounting brackets, cabled remote on-screen display (OSD), and worldwide compliance.

### Features

- A bright, high-contrast display with wide viewing angle easily attracts and holds the user's attention.
- Pure-glass Elo TouchSystems Acoustic Pulse Recognition technology combines optical quality, durability and drift-free stability, with excellent drag properties.
- Elo TouchSystems IntelliTouch (surface acoustic wave) technology offers high-quality optics, durability, and long-term reliability.
- Elo TouchSystems surface-capacitive technology offers a fast, sensitive touch response with strong dragging performance.
- A transparent protective coating makes the touch-screen resistant to scratches and abrasions.
- A sealed bezel that resists liquid splashes and spills adds additional protection to the touchmonitor.
- The enclosure is controlled by Elo TouchSystems specifications and results in a long-lasting product cycle.
- Multiple mounting options are available.
- Dual serial and USB connectivity are standard.
- Worldwide agency approvals and a three-year standard warranty are backed by Elo TouchSystems.

# 2239L 22" Open-Frame Wide-Aspect LCD Touchmonitor

Case/Bezel Color	Dark gray
Display Type	Active matrix TFT LCD
Display Size	22.0" diagonal
Useful Screen Area	Horizontal: 473.8 mm Vertical: 296.1 mm
Monitor Dimensions	Width: 530 mm Height: 352 mm Depth: 78 mm
Optimal (Pre-Set) Resolution	1680 x 1050 @ 60 Hz (90 pixels/inch)
Other Supported Resolutions	640 x 480 @ 60 Hz, 640 x 480 @ 66 Hz, 640 x 480 @ 72 Hz, 720 x 350 @ 70 Hz, 720 x 400 @ 70 Hz, 800 x 500 @ 75 Hz, 800 x 600 @ 56 Hz, 800 x 600 @ 60 Hz, 800 x 600 @ 72Hz, 832 x 624 @ 75 Hz, 1024 x 768 @ 60 Hz, 1024 x 768 @ 65 Hz, 1024 x 768 @ 72Hz, 1024 x 768 @ 75 Hz, 1152 x 864 @ 75 Hz, 1280 x 960 @ 60 Hz, 1280 x 1024 @ 60 Hz, 1280 x 768 @ 65 Hz, 1280 x 1024 @ 75 Hz, 1360 x 768 @ 60 Hz, 1366 x 768 @ 60 Hz; 1600 x 1200 @ 60 Hz, 1680 x 1050 @ 75 Hz
Colors	16.7 million colors
Brightness (typical)	LCD Panel: 300 cd/m <sup>2</sup> , min. 250 cd/m <sup>2</sup> with Surface Capacitive: 249 cd/m <sup>2</sup> , min. 200 cd/m <sup>2</sup> with IntelliTouch: 270 cd/m <sup>2</sup> , min. 212 cd/m <sup>2</sup> with APR: 270 cd/m <sup>2</sup> , min. 212 cd/m <sup>2</sup>
Response Time	Typical Rise Time 5 msec; Typical Fall Time 5 msec
Viewing Angle (typical)	Horizontal: 170° at a CR>10 Vertical: 160° at a CR>10
Contrast Ratio	1000:1 (typical)
Input Video Format	1. RGB Analog Video 2. DVI Video (not available on 2239L-xxxx-x-A-x) models
Input Sync Format	Separate H & V sync, Composite Sync, and Sync-On-Green
Input Video Signal Connector	1. 15-pin female D-sub for Analog Video 2. Female DVI-D for Digital Video
Scanning Frequency Ranges	Horizontal: 30 - 75 kHz Vertical: 56 - 75 Hz
Power Consumption	50W typical, 75W maximum (at 120V/60Hz input)
Power Supply - Internal	Monitor Input Voltage: 100-240 VAC, 50/60Hz
Temperature	Operating: 0°C to 40°C Storage: -20°C to 60°C
Humidity	Operating: 20% to 80% humidity (non-condensing) Storage: 10% to 90% humidity (non-condensing)
Monitor MTBF (excluding lamps)	50,000 hours demonstrated
Backlight Lamp Life	50,000 hours (typical); 40,000 minimum
Weight (approx.)	Actual: 8.48 kg; Shipping: 12.59 kg
Other Features	100 mm VESA mount; Digital on-screen display (OSD); User's control: OSD buttons: menu, up, down, select; OSD: automatic adjustment, contrast, brightness, H/V position, clock, phase, color temperature, input video select, OSD H/V position, OSD timeout, language (English, French, Italian, German, Spanish, Japanese, Traditional Chinese, Simplified Chinese), recall color, recall defaults, sharpness, display information; OSD locking/unlocking and power locking/unlocking
Warranty	TouchMonitor: 3 years
Touch Interface	USB and Serial (IntelliTouch, Surface Capacitive)
Agency Certification	UL (US), cUL (Canada), GS Mark (Germany), FCC (US), CE (EU), NOM (Mexico), PCT (Russia), CCC/RoHS (China), eK/Mic (Korea), BSMI (Taiwan), Singapore, VCCI (Japan), C-Tick (Australia) and S-mark (Argentina), WEEE, IMERC.

To find out more about our extensive range of Elo touch solutions, go to [www.elotouch.com](http://www.elotouch.com), or call the office nearest you.

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