



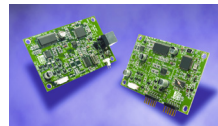
## CarrollTouch Infrared

### For Point-of-Sale and Harsh Environment Applications

Elo's CarrollTouch infrared touchscreens provide optical sensor technology for applications in harsh or glass-free environments. Featuring a low profile with nearly pixel-level touch resolution and no parallax, CarrollTouch touchscreens operate in extreme temperature, shock, vibration, and lighting conditions. The display is protected by a choice of glass or acrylic overlays optimized for optical clarity, security, or safety. CarrollTouch touchscreens provide stable, drift-free operation while delivering an extremely sensitive, accurate touch response with no touch activation force required.

CarrollTouch touchscreens are the ideal choice in many industrial automation, transportation, and in-vehicle applications, POS terminals, and medical equipment.

### 4000/4500 Serial and USB controller boards



## Benefits

- Low profile, high resolution
- No parallax
- Highest clarity
- High durability, vandal resistance, and safety
- Sealable from contaminants
- Operates in extreme environments

## Applications

- Food processing
- Industrial automation
- Medical equipment
- In-vehicle and transportation
- Point-of-sale (POS) terminals

## About Elo

Elo founders pioneered the touch screen over 40 years ago. Today, Elo Touch Solutions is a leading global supplier of touch-enabled technology, products and industry solutions. The Elo portfolio encompasses the broadest selection of OEM touchscreen components, touchmonitors, and all-in-one touchcomputers for the demanding requirements of diverse markets, including gaming machines, hospitality systems, industrial automation, interactive kiosks, healthcare, office equipment, point of sale terminals, retail displays, and transportation applications. The Elo touch experience has consistently stood for quality, reliability and innovation with over 20 million installations worldwide.

## CarrollTouch Infrared Specifications

Mechanical	
Input Method	Finger, gloved hand or other stylus activation
Available Sizes	10.4" to 19"; visit our website for full specifications and other offerings. Custom solutions available.
Electrical	
Positional Accuracy	Typical centroid accuracy: 2mm with 1mm STD error
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	No minimum touch activation force is required
Controller	Board: Serial (RS232) or USB
Optical	
Light Transmission	Glass or acrylic overlay: ≥90%
Environmental	
Temperature	0 to 50°C, 90% RH (non-condensing)
Relative Humidity	-20 to 60°C, 90% RH (non-condensing)
Chemical Resistance	Glass overlay: The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, and vinegar. Acrylic overlay: ASTM D1308 resistance to benzene, toluene, xylene, methylene chloride, acetone, ethyl acetate, and 40% sulfuric acid. Saturated cotton ball test: 30 minutes with gasoline, antifreeze, brake fluid, and diesel fuel with no damage. Polycarbonate bezel: Some sensitivity to hydrocarbons
Electrostatic Protection	Per EN 61000-4-2, 1995: Meets Level 4 (15kV air/8kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class B
Durability	
Surface Durability	Glass overlay: Surface durability is that of glass, Mohs' hardness rating of 7 Acrylic overlay: 9H or Mohs' hardness rating of 2.7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts
Warranty	Touchscreen: 5-year limited warranty; Controller: 5-year limited warranty

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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