



CarrollTouch Infrared

For Point-of-Sale and Harsh Environment Applications

Elo CarrollTouch infrared touchscreens provide optical sensor technology for applications in harsh or glass-free environments. The next-generation design features a low-profile 4.5 mm bezel with nearly pixel-level touch resolution and no parallax, and operates in extreme temperature, shock and vibration, and lighting conditions. The display is protected by a choice of glass or acrylic overlays optimized for optical clarity, security, or safety. With their optical sensors, the CarrollTouch touchscreens provide stable, drift-free operation, and deliver an extremely sensitive, accurate touch response. CarrollTouch touchscreens are the ideal choice in many industrial automation, transportation, and in-vehicle applications, POS terminals, and medical equipment.

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

CarrollTouch Infrared Specifications

MECHANICAL

Input Method	Finger or gloved hand activation
Available Sizes	10.4" to 19"; visit our Web site for full specifications and other offerings. Custom solutions available.

ELECTRICAL

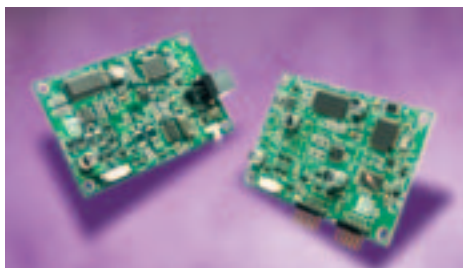
Positional Accuracy	Typical centroid accuracy: 2 mm with 1 mm STD error
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	No minimum touch activation force is required
Controller	Board: Serial (RS232) or USB

OPTICAL

Light Transmission	Glass or acrylic overlay: $\geq 90\%$
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ENVIRONMENTAL

Temperature	Operating: -20°C to 70°C Storage: -40°C to 85°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
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 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class B
Sealability	Can be sealed to meet NEMA 4 and 12 and IP65 standards
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



4000S serial and 4000U USB controller boards

Find out more about the extensive range of Elo touch solutions. Go to www.elotouch.eu or simply call the office nearest you.

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