

Surface Capacitive

Excellent General Purpose Technology



Applications

- Point-of-Sale terminals (POS)
- Gaming/Amusement
- Kiosks

Elo's Surface Capacitive touchscreens provide a solution for customers who want an alternative to their capacitive options available today.

Elo has utilized its 30 years of design knowledge and applied it to a completely new capacitive touchscreen product line. Elo's narrow, patented Z-borders yield an inherently linear sensor. The transparent protective coating makes the sensor resistant to scratches and abrasions. Touch performance is unaffected by everyday abuse and mishaps such as dirt, dust, condensation, liquid spills, contaminants or cleaning solutions. Yet the surface capacitive touchscreens respond quickly and easily with excellent dragging performance.

Elo's capacitive touchscreens deliver the quality touch response you would expect from Elo.

Benefits

- Elo patented narrow Z-border for greater linearity
- Fast, sensitive touch response with excellent dragging performance
- Compatible with industry standard protocols including Elo's SmartSet protocol

Surface Capacitive Specifications

MECHANICAL

Input method	Finger
Available Sizes	12" to 19" flat, standard and custom sizes; Visit our Web site for full specifications and offerings
Glass Thickness	0.118" / 3.0 mm nominal. (Glass only, not including tape, wires and/or solder if used)

ELECTRICAL

Positional Accuracy	Reported touch coordinates are within 1.5% of true position (based on viewing area dimensions)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Controller	Controller board size of 2.1" x 3.3" (5.4 x 8.4 cm), with auto-detect function for Serial (RS232) and USB 1.1 connection (Using Elo SmartSet drivers)

OPTICAL

Light Transmission	Up to 85% per ASTM D1003
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ENVIRONMENTAL

Temperature	Touchscreen	Operating: -15°C to 70°C Storage: -50°C to 85°C
	Controller	Operating: 0°C to 65°C Storage: -25°C to 85°C
Relative Humidity	Operating/Storage: 10% to 90% RH, noncondensing	
Chemical Resistance	Water, ammonia, isopropyl alcohol, and similar non-abrasive cleaners	
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A & B, CISPR B	
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards	

DURABILITY

Surface Durability	Anti-glare hardcoat cannot be scratched using any stylus with Mohs rating equal to or less than 6. Tested in the laboratory to withstand over 160 million (mechanically simulated) touches without noticeable degradation.	
Warranty	Touchscreen	5-year limited warranty
	Controller	5-year limited warranty

*Always store the touch screen sensor and controller in its original shipping container. Never store them in an environment where condensation may form.



Z-border pattern for enhanced linearity



5000RSU dual serial and USB controller

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

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