



Projected Capacitive (PCAP) Touch Technology

For Multi-touch Applications

Projected capacitive touchscreen technology is a capacitance system that delivers a sensitive, accurate two-touch (compatible with Windows 7 and 8 operating systems) interactive experience for Elo Touch Solutions touchmonitors.

Using a proprietary glass-on-glass lamination configuration, it responds to a light touch in a seamless, zero-bezel design. Without an overlay or substrate, the pure-glass surface is nearly impossible to physically “wear out” and is easy to clean with no edges to trap dirt and grease.

Projected capacitive touchscreens combine high resolution with excellent transparency and sleek glass-to-edge aesthetics, making it an excellent choice for most public venues including retail and hospitality. Whether activated by fingers or Latex gloved hands, it consistently delivers a fast, accurate, drift-free touch response. Projected capacitive touchscreens are available in the Elo Touch Solutions touchmonitors and touchcomputers.

Benefits

- Two independent touch points (with Windows 7 and 8 operating systems)
- Responds to a light touch to activate response
- High transparency and color fidelity
- Stable, no-drift performance—no calibration required
- Recognizes touch from a finger or Latex gloved hands

Applications

- Retail
- Restaurants
- Hotels
- Casinos

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.

Projected Capacitive (PCAP) Specifications

Mechanical	
Input Method	Finger or Latex gloved hand activation
Sensor Thickness	2.4mm laminated
Environmental	
Operating Temperature	14°F to 140°F (-10°C to 60°C)
Storage Temperature	14°F to 149°F (-10°C to 65°C)
Operating Relative Humidity	20% to 90% relative humidity, noncondensing
Chemical Resistance	The surface area of the touchscreen is resistant to all 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, vinegar
Electrostatic Protection	Meets IEC 61000-4-2 (4kV contact/8kV air)
Electrical	
Positional Accuracy	Within 2.5mm of target position (meets Win7 specification for positional accuracy)
Resolution	25ppi
Touch Activation Force	No minimum touch activation force is required
Controller	USB HID compatible
Optical	
Light Transmission	88% at 550nm
Durability	
Abrasion Resistance	Glass front, virtually unaffected by surface scratching
Expected Life	No known wear-out mechanism from touch
Water	Resistant to water droplets on the surface
Other Features	
Agency Approvals	UL, FCC, CE
Warranty	2-year limited warranty

To find out more about our extensive range of Elo touch solutions, go to www.elotouch.com, or call the office nearest you.

North America

Elo Touch Solutions
1033 McCarthy Boulevard
Milpitas, CA 95035

800-ELO-TOUCH

Tel +1 408 597 8000

Fax +1 408 597 8001

customerservice@elotouch.com

Europe

Tel +32 (0)16 70 45 00

Fax +32 (0)16 70 45 49

elosales@elotouch.com

Asia-Pacific

Tel +86 (21) 3329 1385

Fax +86 (21) 3329 1400

www.elotouch.com.cn

Latin America

Tel 786-923-0251

Fax 305-931-0124

www.elotouch.com

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