



# 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

### Touch Products

- Available in Elo Touch Solutions 1515L, 1519L, 1715L, 1919L, 2201L, 1940L, 2243L and 2244L touchmonitors and M-Series touchcomputers

# 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 Controller | No minimum touch activation force is required<br>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](http://www.elotouch.com), or call the office nearest you.

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