



Projected Capacitive

For Outdoor and Through-Glass Applications



Applications

- Outdoor kiosks
- Ticketing machines
- ATMs
- Web phones
- Pay-at-the pump gas machines
- Through-glass, undercounter, and bartop applications

Elo's projected capacitive technology enables touches to be sensed through a protective layer in front of a display, effectively allowing touchmonitors to be installed behind store windows or vandal-resistant glass. The transparent projected capacitive touchscreen, which is installed between the display and a protective outer layer, allows the complete system to have unsurpassed resistance to impacts, scratches, and vandalism commonly found in public-access applications. The sensing technology is also unaffected by moisture, heat, rain, snow and ice, or harsh cleaning fluids, making it ideal for outdoor applications as well. Offered in two versions: DirectTouch, which consists of a 7.8 mm sensor with tempered glass outer layer, and ThruTouch, which is optimized to work through a customerinstalled outer layer. The solid-state touchscreen and controller provide increased levels of reliability and longer life expectancy, resulting in a drift-free response and a low-maintenance unit that requires no recalibration.

Benefits

- Works outdoors—in rain, snow, ice, and dust
- Touch function operates through customer-installed materials, including vandal-resistant glass up to 18 mm thick
- True flat front surface possible with no bezel
- Works with gloves
- Works even if glass is scratched or broken





Projective Capacitive Specifications

MECHANICAL

Input Method Finger or gloved hand activation Sensor Thickness DirectTouch: 7.8 mm ThruTouch: 5.8 mm (plus customer supplied glass up to 18 mm thick) **ELECTRICAL** Positional Accuracy < 1.5% of reported position in recommended viewing area 4096 x 4096 Resolution Touch Activation Force No minimum touch activation force is required Controller Integral with the screen, with RS232 interface **OPTICAL** Up to 88% per ASTM D1003-92 Light Transmission **ENVIRONMENTAL** Operating: -15°C to 70°C Temperature Storage: -40°C to 70°C Relative Humidity Operating: 0°C at 90% RH, noncondensing Chemical Resistance Glass is unaffected by cleaning solutions Laminated glass assembly complies with EN 60950, UL 60950, and UL 544 Electrostatic Protection UL, TÜV Bauart, FCC, CE Agency Approvals Sealability Can be sealed to meet NEMA 4 and 12 **DURABILITY** Abrasion Resistance Glass front, unaffected by surface scratching **Expected Life** No known wear-out mechanism from touch Shock/Vibration In accordance with UL291 when installed in a suitable correct bezel Meets UL-60950 and CSA C22.2 No. 60950 ball drop test (0.5 kg, 50 mm diameter ball dropped from height of 1.3 m) Impact Resistance Water Resistant to water droplets on the surface Weather Resistant to snow, ice, rain, sleet, hail, wind, etc. Warranty 2-year limited warranty

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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