

# **Projected Capacitive**

## For Outdoor and Through-Glass 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

#### **Applications**

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





### Projected 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

Resolution 4096 x 4096

Touch Activation Force No minimum touch activation force is required Controller Integral with the screen, with RS232 interface

**OPTICAL** 

Light Transmission Up to 88% per ASTM D1003-92

**ENVIRONMENTAL** 

Temperature Operating: -15°C to 70°C Storage: -40°C to 70°C

Relative Humidity Operating: 0°C at 90% RH, noncondensing Chemical Resistance Glass is unaffected by cleaning solutions

Electrostatic Protection Laminated glass assembly complies with EN 60950, UL 60950, and UL 544

Agency Approvals UL, TÜV Bauart, FCC, CE

Sealability Can be sealed to meet NEMA 4 and 12, and IP65 standards

**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

Impact Resistance 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)

Water Resistant to water droplets on the surface Weather Resistant to snow, ice, rain, sleet, hail, wind, etc.

Warranty 2-year limited warranty

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

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