



# Surface Capacitive

## Excellent General Purpose Technology

**Elo's Surface Capacitive touchscreens** are a reliable resource for the capacitive options currently available—and from a world-class manufacturer. They are ideal for use in gaming and casino applications, especially bar-top and slot machine installations.

Elo has utilized over 35 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 electrode pattern for greater linearity, no screen-specific linearization data needed
- Rear back shield for reliable operation
- Fast, sensitive touch response with excellent dragging performance
- Compatible with industry standard protocols including Elo's SmartSet protocol

### Applications

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

# Surface Capacitive Specifications

## MECHANICAL

|                 |   |
|-----------------|---|
| Input Method    | Finger  |
| Available Sizes | 12" to 26" flat; Visit our website for full specifications and offerings            |
| Glass Thickness | 0.118"/3.0mm 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          | Board: Serial and USB  |
| ESD                 | ± 8kV contact; ± 27kV DC   |

## OPTICAL

|                    |                          |
|--------------------|--------------------------|
| Light Transmission | Up to 85% per ASTM D1003 |
|--------------------|--------------------------|

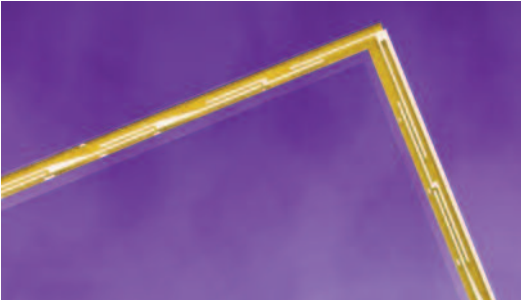
## ENVIRONMENTAL

|                     |   |
|---------------------|---|
| Temperature         | Touchscreen Operating: -15°C to 70°C; Storage: -50°C to 85°C<br>Controller Operating: -40°C to 70°C; Storage: -50°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   |

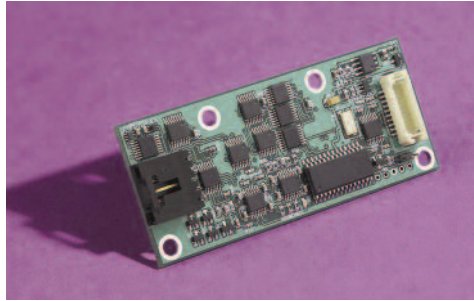
## DURABILITY

|                    |  |
|--------------------|--|
| Surface Durability | Anti-glare hardcoat cannot be scratched using any stylus with Mohs rating equal to or less than 6                      |
| Expected Life      | Tested in the laboratory to withstand over 160 million (mechanically simulated) touches without noticeable degradation |
| Warranty           | Touchscreen 5-year limited warranty<br>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 electrode pattern for enhanced linearity



5020 dual serial and USB controller

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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