



IntelliTouch Surface Wave

For High-Use Applications

Elo's IntelliTouch touchscreens, utilizing patented flat profile surface wave technology, are the picture-perfect, precision touch solution for high-use applications. The new flat profile technology has tiny transducers on the back of the touchscreen glass, eliminating the bumps on the front surface for a flatter integration solution. With the longest touchscreen warranty available, the IntelliTouch touchscreens are the preferred solution for applications requiring unsurpassed performance, reliability, and clarity. Their durable, pure-glass construction delivers the ultimate in image clarity and light transmission, preserves color purity, and works even if scratched. With their stable, drift-free operation, the IntelliTouch touchscreens guarantee a touch response that is on target. The IntelliTouch touchscreens are the ideal solution for kiosks, ticketing machines, gaming machines, light industrial, and office automation.

Benefits

- Pure glass construction delivers the ultimate in image quality
- Stable, drift-free operation
- Continues to work even if scratched
- 10-year limited warranty

Applications

- Kiosks
- Ticketing machines
- Gaming machines
- Light industrial
- Office automation

IntelliTouch Surface Wave Specifications

MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes*	10.4" to 32"; visit our Web site for full specifications and other offerings

ELECTRICAL

Positional Accuracy	Standard deviation of error is less than 0.080 in. (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096, plus 255 levels corresponding to touch pressure
Touch Activation Force	Typically 2 to 3 ounces (55 to 85 grams)
Controller	Board: Serial (RS232) and USB

OPTICAL

Light Transmission	92% ± 2%
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ENVIRONMENTAL

Temperature	Operating: -20°C to 50°C Storage: -40°C to 71°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	The touch active area of the touchscreen is resistant to 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	Per EN 61000-4-2, 1995: Meets Level 4 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 3/3R/5/12/12K/13, IP64 standards

DURABILITY

Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. IntelliTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
Impact Resistance	Can meet UL-60950 and CSA 22.2 No. 60950 ball drop test (0.5 kg, 50 mm diameter ball dropped from height of 1.3 m)
Warranty	Touchscreen: 10-year limited warranty Controller: 5-year limited warranty

*Available in most standard sizes. For some sizes, transducers are located on a beveled edge or the front of the glass. See the touchscreen component drawing for details.



2701 dual serial/USB controller



Flat profile cable

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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