



IntelliTouch Surface Acoustic Wave

For High-Use Applications

Elo's IntelliTouch touchscreens, utilizing patented flat profile surface acoustic 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.

Features

- Available in standard and wide formats, up to 46" diagonal
- Clear and anti-glare surface finishes available
- Custom screen designs available

Benefits

- Pure glass construction delivers the ultimate in image quality
- Stable, drift-free operation
- Continues to work even if scratched
- 10 year limited warranty
- Vandal resistance available (SecureTouch Surface Wave)

Applications

- Self-service kiosks
- Ticketing machines
- Gaming machines
- Light industrial
- Office automation
- Retail POS machines

IntelliTouch Surface Acoustic Wave Specifications

MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes*	5.0" to 46"; visit our website for specific product offerings

ELECTRICAL

Positional Accuracy	Standard deviation of error is less than 0.080" (2mm)
Resolution	More than 100,000 touchpoints/in ² (15,500 touchpoints/cm ²) for a 15-inch touchscreen when used with the 2701 series controller
Touch Activation Force	Typically less than 3 ounces (85 grams)
Controller	Board: Serial (RS232) and USB

OPTICAL

Light Transmission	92% or higher per ASTM D1003
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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 Storage: Noncondensing environment
Altitude	Operating: 10,000 ft. (3,048m) Storage/transport: 50,000 ft. (15,240m)
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 (15kV air/8kV 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.
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 our extensive range of Elo touch solutions, go to www.elotouch.com, or call the office nearest you.

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