

IntelliTouch Surface Acoustic Wave

For High-Use Applications

Elo's IntelliTouch touchscreens, utilizing patented flat profile surface acoustic wave technology, are the pictureperfect, 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/in² (15,500 touchpoints/cm²) 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

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.

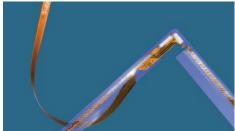
Warranty Touchscreen: 10 year limited warranty

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.







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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