



IntelliTouch[®] Surface Acoustic Wave

Touch Solution



Single- or Dual-Touch



7" to 32"
(Standard & Wide Format)



Chemical Resistance &
EMI/EDS Immunity

Product Overview

SAW touchscreen technology delivers superior image clarity, reliability, chemical resistance and EMI/EDS immunity. It is ideal for high definition, eye-popping displays - like those seen in gaming - due to its great resolution and light transmission through its clear glass screen. It will hold up in harsh environments such as hospitals and operating rooms and can be deployed for years without maintenance. Elo offers IntelliTouch SAW technology with transactional single touch or interactive multi-touch capabilities. Micro-bezel or zero-bezel designs are offered along with fully tempered, heat or chemically strengthened glass or ruggedized applications. IntelliTouch technology has met all the Additional Qualification (AQ) testing requirements established by Microsoft for Windows 7 multitouch touch gesture recognition. IntelliTouch SAW is a cost-effective alternative to projected capacitive (PCAP) touch technology that offers better optical clarity and the same zero-bezel style. Three axes of touch information are used to precisely discern two simultaneous touch locations anywhere on the screen. IntelliTouch can scale across a wide range of screen sizes, without performance degradation. The stable, drift-free operation of SAW touchscreen technology provides an accurate touch response measured on three axes using a finger, gloved hand, or passive stylus. Elo's sensitive touch response recognizes location and amount of pressure applied.

IntelliTouch Surface Acoustic Wave Touch Specifications

Mechanical	
Input Method	Finger or gloved hand (cloth, leather, or rubber) activation, or soft stylus
Size Range*	7.0" to 32"

Electrical	
Positional Accuracy	Standard deviation of error is not greater than 2.5mm and typically much less with calibration to display image
Resolution	6.19 points per mm typical (AID sampling capability is extended by pattern recognition software)
Touch Activation Force	2 to 3 ounces (55 to 85 grams) typical
Controller	USB

Optical	
Light Transmission	92% ± 2%
Anti-Glare Surface Glass	95±15 or 65±15 gloss unit when measured per ASTM D2457 using a 60-degree gloss meter anti-glare can be deposited or etched

Environmental	
Temperature	Operating : 32°F to 122°F (0°C to 50°C); Storage : -40°F to 160°F (-40°C to 71°C)
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
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 kVair/8kV contact discharges)
Agency Approvals	UL cUL, TUV, CE, FCC Class A, RoHS compliant
Sealability	IntelliTouch Zero-Bezel touchscreen has been successfully integrated by integrators to meet NEMA 3/3R/5/1 2/1 2K/1 3, IPXI standards

Durability	
Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 6.5
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	
IntelliTouch: 5-year limited warranty	
IntelliTouch Zero Bezel: 3-year limited warranty	

Benefits
Completely flat touchscreen offers sleek, refined appearance
No bezel required for easy integration into touchmonitors, touch computers or other devices
Fast accurate, and stable touch performance
Tested to more than 50 million touches in one location without failure

Applications
Desktop touchmonitors and all-in-one touchcomputers
Public environments such as hotel lobbies, office buildings, auto dealerships, bank branches, gaming casinos, healthcare waiting rooms, retail stores and train stations
Point-of-information kiosks
Vending and ticket sales
Gaming, lottery, and amusement
Interactive Digital Signage
Banking and financial transactions
Industrial control rooms

* Available in standard or to be made upon custom requests with in technology capability size offering. Please email Customer Service at customerservice@elotouch.com or contact your local office.

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

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