

IntelliTouch Surface Wave

For High-Use Applications



Applications

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

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

IntelliTouch Surface Wave Specifications

MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes*	10.4" to 30"; 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) or USB 1.1

OPTICAL

Light Transmission	Up to 90% per ASTM D1003-92
--------------------	-----------------------------

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.
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

Find out more about Elo's extensive range of touch solutions. Go to www.elotouch.com, or simply call the office nearest you.

Corporate Headquarters

Elo TouchSystems
301 Constitution Drive
Menlo Park, CA 94025-1110

800-ELO-TOUCH

Tel 1-650-361-4700
Fax 1-650-361-4747
eloinfo@elotouch.com

Europe Headquarters

Tel +32 (0)16 35 21 00
Fax +32 (0)16 35 21 01
elosales@elotouch.com

Asia-Pacific Headquarters

Tel +81 (45) 478-2161
Fax +81 (45) 478-2180
www.tps.co.jp

Latin America Headquarters

Tel 1-305-428-5210
Fax 1-305-717-4909
www.elotouch.com.ar

Elo TouchSystems reserves the right to change or update, without notice, any information contained herein; to change, without notice, the design, construction, materials, processing or specifications of any products; and to discontinue or limit production or distribution of any products.

Elo TouchSystems and IntelliTouch are trademarks of Tyco Electronics Corporation. All other trademarks are the property of their respective owners.
Copyright 2006 Tyco Electronics Corporation H56606 3/06