

iTouch Surface Wave

The Ultimate Touch Technology for CRTs

BENEFITS:

- No overlay - touch the tube directly!
- Preserves 100% of the original image quality
- Up to 20% brighter and 80% less reflection
- No overlay to break
- Continues to work even if scratched



iTouch touchmonitors, utilizing patented touch-on-tube surface wave technology, are the ultimate, picture-perfect touch solution for applications that demand high image quality. Touches are sensed through surface waves on the CRT faceplate itself. By completely eliminating the touchscreen overlay, Elo preserves 100% of the original picture quality, including clarity, colors, and brightness, and reflections are reduced by up to 80% compared with a traditional touchscreen overlay. With its super-sensitive, stable, drift-free operation and no parallax, Elo's iTouch touchmonitors guarantee a touch response that is on target. CRT touchmonitors with iTouch are available from Elo in desktop and open or closed frame chassis configuration from 15" to 21".

APPLICATIONS:

- Kiosks
- Gaming and amusement
- Digital photo print stations
- Medical imaging
- Light industrial



Electronics



Touch the iTouch tube directly—no touchscreen overlay needed



2500S serial controller board



2500U USB controller board

iTouch Surface Wave

| MECHANICAL | |
|--------------------------|--|
| Input Method | Finger or gloved hand (cloth, leather, or rubber) activation |
| Available Sizes | 15" to 21"; 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 | 100% |
| 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 touchmonitor 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; Elo kiosk and gaming iTouch monitors include a watertight seal. |
| 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. iTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger. |
| Warranty | See monitor warranty |



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

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