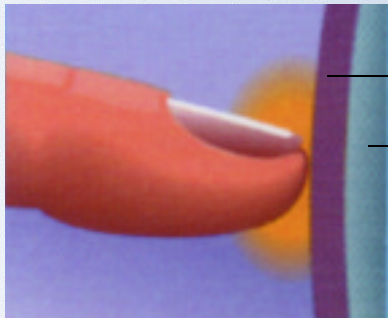




# SecureTouch® Surface-Wave Touchscreens

## Benefits of SecureTouch

- Smart, fast touch response with finger, gloved-hand, and soft stylus
- Superior image clarity, resolution and light transmission
- Stable, drift-free operation
- High impact-resistance—fully tempered or heat-strengthened glass
- Sealable against contaminants



Glass touchscreen

Flat panel

## SecureTouch Surface-Wave Technology

SecureTouch products are made of tough, break-resistant glass that inhibits vandalism while providing a fast response to a light touch. SecureTouch touchscreens incorporate the solid-glass, coating-free construction of proven surface-wave technology, so they withstand scratches, abrasions and impact that would disable other touchscreens.

The SecureTouch system has three main components: a clear solid-glass screen formed to match the shape of a display, an electronic controller, and a software driver.

The controller uses ultrasonic waves on the glass to develop a digital map of the touchscreen surface. When you touch the screen, you absorb a portion of the wave traveling across it. The received signal is then compared to the stored digital map, the change recognized, and a coordinate calculated. The digitized coordinates are transmitted to the computer for processing.

## Rugged Touchscreens for High-Threat Environments

### The Clearest, Most Impact-Resistant Touchscreens

Solid, break-resistant glass and Elo's patented surface-wave technology make SecureTouch touchscreens the ideal solution for risky environments. SecureTouch delivers the superior optical performance of Elo's IntelliTouch technology combined with thicker glass that is tempered or heat-strengthened to withstand high-impact abuse or accidents without breaking.

SecureTouch touchscreens deliver the clearest image possible. The only solid-glass touchscreen in the industry with no coatings or front layers, SecureTouch touchscreens are the perfect choice for today's highly graphical presentations. In such applications as public access kiosks, interactive pay phones and amusement and gaming machines, SecureTouch touchscreens attract attention and invite use.

### Reliable and Stable

SecureTouch touchscreens also offer unmatched reliability. Tested to function perfectly even after more than 50 million touches in one location, SecureTouch touchscreens have no known wear mechanism.

Surface-wave technology is inherently stable, so SecureTouch touchscreens simply won't lose accuracy over time or due to environmental conditions.

### Fast and Sensitive

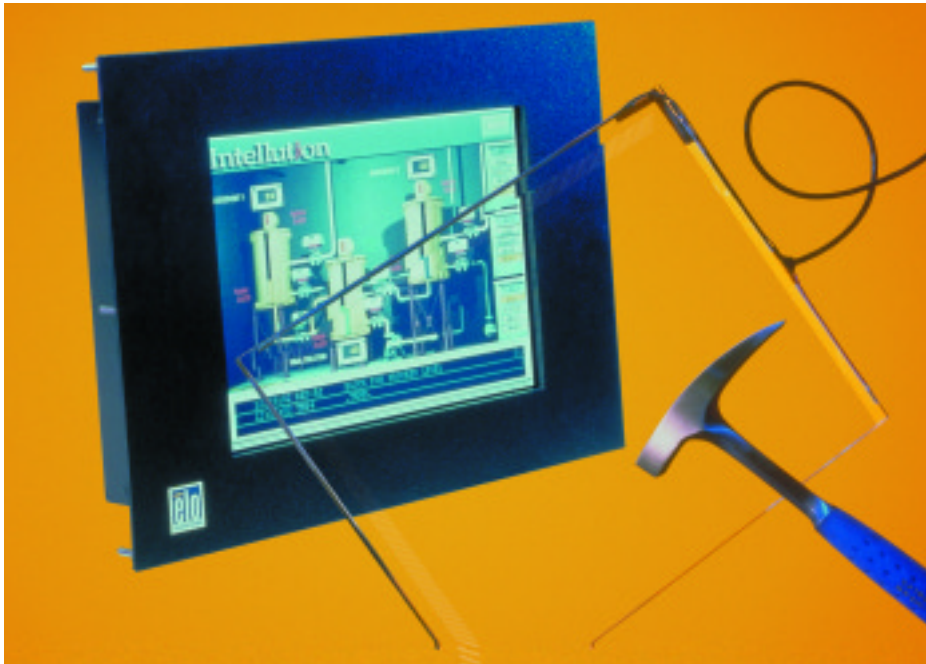
Elo's touchscreen controller is highly sensitive—it responds accurately to the lightest touch. It's also nearly twice as fast as previous surface-wave controllers.

SecureTouch touchscreens can register more information than simply touch location on the X and Y axes. When you touch a SecureTouch touchscreen, it also recognizes the amount of pressure applied—the Z axis. Surface wave is the only technology to provide this capability.

### Smarter Than the Average Touchscreen

The SecureTouch controller has the smarts to reprogram or "learn around" contamination—including grease, dirt, bits of food, gum and other substances—and respond immediately to the next touch. It does not register contaminants as touches, and its smart touch response virtually eliminates false touch activation.

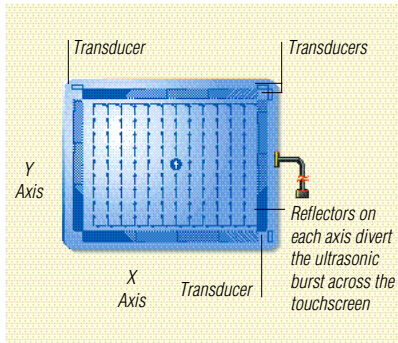
*SecureTouch touchscreens offer high impact-resistance and superior image quality*



# SecureTouch Surface-Wave Touchscreens

## Typical Applications

- Kiosks
- Multimedia demos and marketing
- Ticket sales, vending, and gift registries
- Gaming, lottery and amusement
- Banking/financial transactions
- Industrial control rooms
- Interactive pay phones



Piezoelectric elements located at the corners of the SecureTouch touchscreen generate a high-frequency wave. A sophisticated border pattern reflects the wave across the glass, creating a digital map of the touchscreen surface.

## Durability

The solid-glass construction of a SecureTouch touchscreen resists breakage, scratches and abrasions, and continues to operate even with deep scratches. Elo is a favorite with developers of public access systems because even with severe abuse, SecureTouch solutions keep working.

Our new sealing capability further enhances durability, offering increased protection from dust, splashing of liquids, and other external contaminants.

Test results show that SecureTouch touchscreens easily exceed the specifications of the UL-1950 Ball Drop Test (repeated impact from a 0.54-kilogram

steel ball dropped from a height of 51.5 inches) without breaking.

## Visual Resolution

4096 x 4096 resolution—the highest in the industry—allows developers flexibility in designing their application, without being restricted to large, screen-consuming touch targets.

## Light Transmission

Ninety percent light transmission provides optimized brightness and contrast.

## Choice of Touchscreen Thickness

To provide the strength and security appropriate to your application, SecureTouch touchscreens are available in two thicknesses:

- The 0.50-inch (12mm) provides ultimate protection in high-threat environments.
- The 0.25-inch (6mm) offers almost the same strength in a thinner, lighter form factor.
- An optional lamination is available to ensure the glass screen remains intact even if broken.

## Choice of Touchscreen Size

- Flat touchscreens in sizes from 10.4 inches to 21 inches
- Fully tempered glass for 15.1-inch and smaller sizes, heat-strengthened glass on larger sizes
- Custom sizes for OEM quantities

## Choice of Surface Treatment

- Clear
- Antiglare
- Privacy filter available for applications involving sensitive information, such as ATM transactions

## Choice of Controller

- Internal serial, external serial, PC bus

## Available Software Drivers

- MonitorMouse mouse-emulation software, available for multiple platforms
- MonitorMice extension, which allows multiple-monitor operation with one PC

## Unbeatable Service and Support

- Shipment within 24 hours of order for most standard products in limited quantities
- Product information (1-800-ELO-TOUCH)
- In-depth technical assistance for developers of touch systems (1-800-489-9935)
- Longest warranties in the industry (10 years touchscreen, 5 years touch controller)
- Agency approvals for all components
- Evaluation units for 30-day trial
- Elo's On-line Virtual Tech Support Technician: [www.elotouch.com/tech.html](http://www.elotouch.com/tech.html)

For a comparison of touchscreen technologies, and complete touchscreen specification details, visit our Web site at [www.elotouch.com](http://www.elotouch.com). Or, simply call the office nearest you:

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[www.elotouch.com](http://www.elotouch.com)

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