



AccuTouch Zero-Bezel Five-Wire Resistive Touchscreens

For Human-Machine Interface

The Elo Touch Solutions AccuTouch zero-bezel touchscreens are based on the proven standard AccuTouch five-wire resistive technology, the preferred solution for applications that demand reliability, input flexibility, and contamination resistance. AccuTouch touchscreens, with proprietary Elo Touch Solutions resistive technology, deliver a touch response that is drift-free and accurate in high-use applications. The zero-bezel design eliminates the need for a traditional front-bezel, achieving a smooth, seamless flat surface for a clean, modern look.

Compare the five-wire design of AccuTouch with a 4H coversheet hardness rating and where both X and Y measurements are made on a stable rear glass layer, with other resistive touchscreen designs using a flexing plastic coversheet that measure only one axis. As a result, AccuTouch touchscreens provide a longer product life backed by a five-year warranty—withstanding more than 35 million touches.

AccuTouch zero-bezel touchscreens use a flexible printed circuit cable that virtually eliminates the cable attachment bump that is typical on most resistive touchscreens and enables a smooth, flat integration. The screens work with standard Elo controller/ chip solutions and drivers under a wide variety of operating systems, and are available in a set of standard products as well as customized designs.

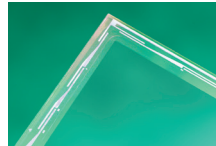
2218 combo controller board



COACH V combo controller chip



Z-border pattern for enhanced linearity



Benefits

- Flat cable attachments for seamless integration and customization capabilities
- Zero-bezel configuration for seamless design eliminates the traditional bezel that can collect dust and dirt
- No lamination of additional décor foil is required which helps to reduce costs and supply chain complexity
- Stable, drift-free operation
- Broad input flexibility
- Contamination resistance
- Accuracy in high-use applications
- Can be sealed to support NEMA 4/4x/12 and IP65 standards upon integration
- 4H pencil hardness resists scratching

Applications

- Point-of-sale (POS) terminals
- Voting machines
- Industrial automation
- Medical equipment
- Office automation
- Retail automation
- Pharmacy automation

About Elo

Elo founders pioneered the touch screen over 40 years ago. Today, Elo Touch Solutions is a leading global supplier of touch-enabled technology, products and industry solutions. The Elo portfolio encompasses the broadest selection of OEM touchscreen components, touchmonitors, and all-in-one touchcomputers for the demanding requirements of diverse markets, including gaming machines, hospitality systems, industrial automation, interactive kiosks, healthcare, office equipment, point of sale terminals, retail displays, and transportation applications. The Elo touch experience has consistently stood for quality, reliability and innovation with over 20 million installations worldwide.

AccuTouch Five-Wire Resistive Specifications

Mechanical	
Input Method	Finger, gloved hand, or stylus activation
Available Sizes	7" to 22"; visit www.elotouch.com for full specifications and other offerings
Electrical	
Positional Accuracy	Standard deviation error is less than 0.080 (2mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	Typically less than 4 ounces (113 grams)
Controller	Board: Serial (RS232) and USB Chip: Serial (RS232) and USB
Optical	
Light Transmission	HL products: 80% ±5% at 550nm wavelength
Environmental	
Temperature/Relative Humidity	0 to 50°C, 90% RH (non-condensing)
Altitude	-20 to 60°C, 90% RH (non-condensing)
Chemical Resistance	Industrial chemicals: acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, hexane, turpentine, mineral spirits, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze. Food-service chemicals: vinegar, coffee, tea, grease, cooking oil, salt, plus most commercial cleaners including ammonia-based glass cleaner and laundry detergent.
Electrostatic Protection	Per EN 61000-4-2, 1995: Withstands 20 discharges up to 15kV
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards
Durability	
Surface Durability	AccuTouch zero-bezel: meets pencil hardness 4H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty

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

North America

Elo Touch Solutions
1033 McCarthy Boulevard
Milpitas, CA 95035

800-ELO-TOUCH

Tel +1 408 597 8000
Fax +1 408 597 8001
customerservice@elotouch.com

Europe

Tel +32 (0)16 70 45 00
Fax +32 (0)16 70 45 49
elosales@elotouch.com

Asia-Pacific

Tel +86 (21) 3329 1385
Fax +86 (21) 3329 1400
www.elotouch.com.cn

Latin America

Tel 786-923-0251
Fax 305-931-0124
www.elotouch.com

Elo Touch Solutions, Inc. 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 (logo) and Elo Touch Solutions are trademarks of Elo Touch Solutions, Inc. Copyright 2014 Elo Touch Solutions, Inc. All rights reserved. DS000063, rev A 03/14

