

# Touch Screen Products



AIS Touch Screen solutions deliver exceptional performance meeting the needs of a broad range of industries, be it the regulated requirements of medical applications, the durability counted on for industrial controls, or the rugged outdoor environment of oil fields,

AIS PCAP Touch Screen products are specifically designed for applications that push traditional capabilities. We leverage decades of experience to configure custom sized PCAP Touch Screens that deliver a balanced feature set for products requiring high-performance solutions.

AIS standard Touch Screens can be configured to meet your unique requirements including cover glass size and customer-specific artwork/ decoration.



## Product Description

AIS Touch Screen glass sensor construction provides the impact strength and optical clarity needed for high-performance products. Touch characterization is optimized using our best-in-class tuning processes to align functionality to the user's application. AIS Touch Screens seamlessly integrate into your product design to support overall product performance goals.

### AIS Touch Screens offer :

- Multi-Touch, up to 10 points with Palm Rejection
- Impact and Scratch Resistance
- Water Rejection
- Touch Tuning and Characterization
- Optical Clarity
- High Noise and EMC Immunity



AIS offers fully integrated design and manufacturing capabilities worldwide and can provide custom touch screen/display solutions upon request. Please contact AIS to learn more about how our expertise and experience can help solve your most difficult Human Machine eXperience (HMX) chal-

## Applications

- Medical Displays
- Factory Automation
- Industrial Controls
- Outdoor Kiosks
- Food Service
- Ruggedized Applications
- Harsh Environments
- Electric Vehicles
- Off-Road Vehicles

## Features & Benefits

- Integrated PCAP sensor and controller board
- Touch tuning to meet your application needs
- Chemically strengthened glass that is durable and scratch resistant
- Anti-glare coatings
- Water rejection for false touch performance
- Noise and EMC Immunity
- USB and I<sup>2</sup>C data output

# SPECIFICATIONS

## CUSTOM SIZES

Sizes range from 3" to 86"  
Cover glass thickness up to 10mm

## CAPACITIVE (PCAP) TOUCH

### Features

<25ms Response Time  
<50mA Power Draw of Sensor  
10 point Multi-Touch and Gesture support  
Water Rejection

### I/O Interfaces Input Voltages

Finger & Gloved Touch compatible  
USB with HID Digitizer Class Output or I<sup>2</sup>C  
3.3 or 5.0 VDC

## Cover Glass

### Material

1.8mm Soda Lime Glass

### Anti-Glare

70 +/- 10 Gloss Anti-Glare Etch

### Transmissivity

>88% with Haze <5%

### Decoration

Black Border

## ENVIRONMENTAL

### Operating Temperature

0°C to +50°C

### Standard Storage Temperature

-40°C to +70°C

### Relative Humidity

0-95% @ +40°C (Non-condensing)

## EMISSIONS & IMMUNITY

### ESD, EMI, RFI

NOTE: AIS can help define and configure your compliance strategy to support your product regulatory needs



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