baanto™
THE FUTURE OF TOUCH

ShadowSense™

What Can a Shadow Tell Us?

ShadowSense is an innovative and patented optical position sensing technology that uses high performance sensors operating in the analog domain to provide unprecedented performance, stability and accuracy.

The best analogy for ShadowSense technology lies in the 6,000 year old sundial. The shadow cast by a sundial instantly and accurately responds to the position of a light source without the use of lenses, with an infinite depth of field and without the need for exposure control. ShadowSense exploits the same characteristics for touch applications, resulting in one of the highest performing, and most robust optical sensing solutions available.

A perimeter based sensor design, ShadowSense decouples the touch function from the protective glass providing improved optical and environmental performance, and better immunity to surface debris and scratches. ShadowSense offers unparalleled features and scalability for the most demanding applications and environments.

POWERED BY

ShadowSense™

For the ultimate touch experience, look for the *'Powered by ShadowSense'* logo!

Key Benefits

Fast, Accurate, Repeatable
With sub-10 ms response times and sub-2 mm touch accuracy, every touch point is independently tracked to provide a seamless experience.

Input Agnostic
Recognize the shape, size and pressure of any object whether it's a bare finger, a gloved finger or even a paintbrush.

Ambient Light Immunity
Provides an unparalleled degree of immunity to high brightness and changing light intensities, even working in direct sunlight and studio environments.

Highly Scalable
Perimeter based technology scales from 8" to 267", both cost effectively and without sacrificing performance or features.

Palm Rejection
Sensing the size of an object permits control over what is recognized as a valid touch versus an unintentional touch, allowing for spurious touch and palm rejection.

Pen and Eraser Recognition
Instantly differentiates between a finger, pen and eraser so that inking applications can be used without added overhead or cumbersome control changes.

Driverless Interface
Requires no drivers or touch detection applications running on the host CPU making it ideal for low power CPU's and media players.

Dashboard Configuration and Monitoring Tool

Unleash the Power Within ShadowSense!

An industry first, Dashboard provides users with the ability to easily configure and modify the touchscreen behavior. Dashboard allows the user to adjust the performance and touch characteristics of the touchscreen to provide spurious touch and palm rejection, debris and static object recognition, rain and fluid cancellation, and touch object characterization.

Also included with Dashboard, are comprehensive monitoring capabilities that allow users to quickly assess the health of their ShadowSense frames, ensuring 24/7 operation of the most critical applications.

ShadowSense Products

Slim Touch Series

- 5 point multi-touch overlay
- Ultra low-profile 3.2 mm high bezel
- Impervious to surface scratches, debris and liquids
- Sizes from 15" and above

Midsized Series

- 5 point multi-touch overlay
- Open frame design fits common displays
- 3 mm tempered glass with 91% optical clarity
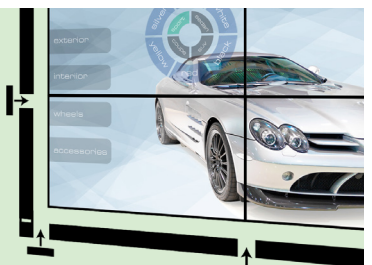- Sizes from 15" to 22"

Large Format Series

- 6, 10, 12 point multi-touch overlays
- High ambient light immunity
- Supports passive pen and eraser inputs
- Sizes from 31" to 98"

Modular Touch Series

- Modular multi-touch frame
- Fits large video walls using thin bezel displays
- Easy to transport, install and service
- Sizes up to 267"