baanto™
THE FUTURE OF TOUCH

Bring Your Video Wall to Life

With the Baanto Modular Touch System, the whole is truly greater than the sum of its parts.

Using patented ShadowSense™ technology, the Modular Touch System is the industry's first and only truly modular solution that allows frames of any size to be assembled, providing high performance multi-touch capabilities to video walls composed of thin bezel displays, and LED panels.

No more costly installation and service calls. The Modular Touch System is field-installable, requiring minimal tools. The touch frame is separate from the glass so each piece can be removed and replaced without affecting the rest of the system. What's more, with native support for all major operating systems, it really is as simple as plug and play.

Targeted at command and control, broadcast studio, museum, corporate lobby, large retail, stadium and rental applications, the Modular Touch System makes it easy and cost effective to add a whole new dimension to your video display wall.

ShadowSense™

Key Features

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.

Easy Assembly
Components can all be assembled using just one tool. Servicing is made easy since individual pieces can be removed and replaced without disturbing the rest.

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
Modular structure allows the frame to scale from a basic 2X1 configuration and beyond, both cost effectively and without sacrificing performance.

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.

Comprehensive Diagnostics
Baanto Dashboard provides immediate feedback of LED functionality allowing for quick and easy troubleshooting, as well as remote monitoring.

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.
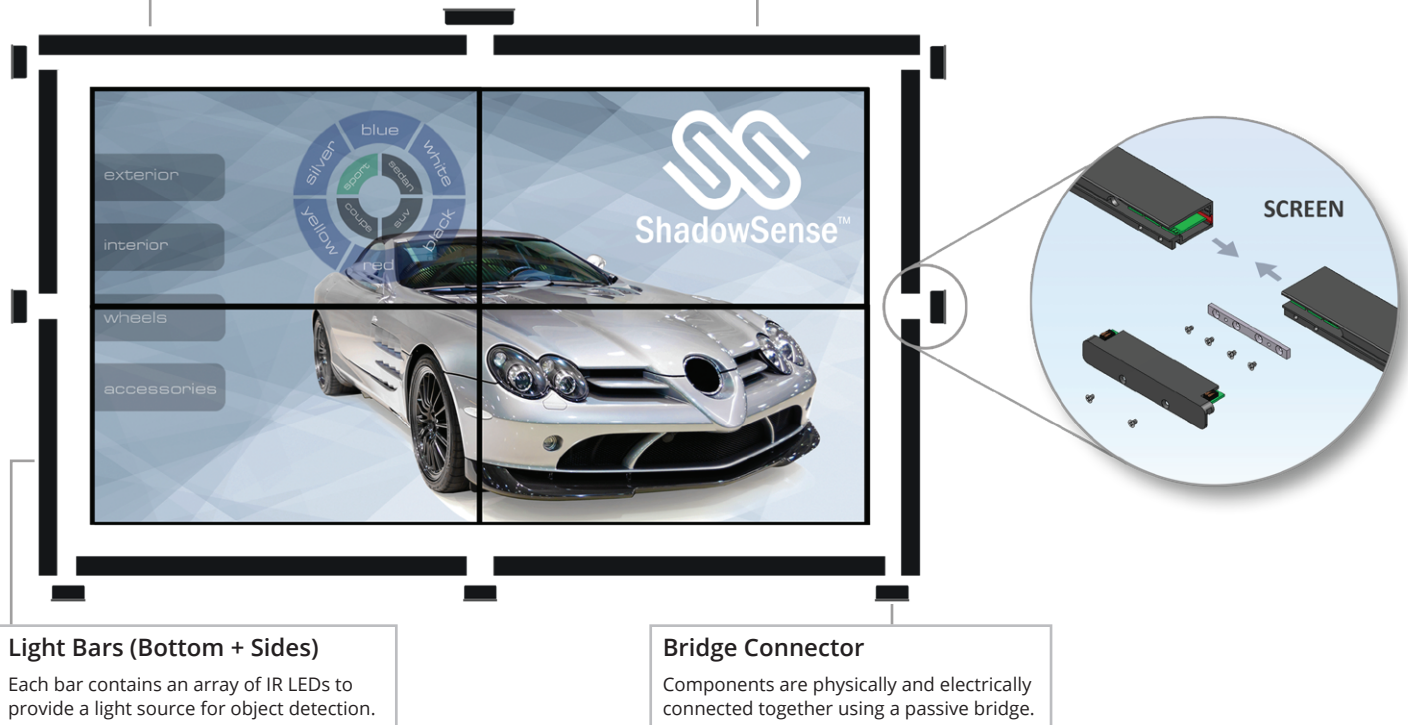
Innovative Architecture

Sensor Bars (Top)
Each bar contains multiple sensors used to detect the shadow cast by touch objects.

Simple Interface
A single USB cable and power source is all that is needed to interface with the frame.

SCREEN

Light Bars (Bottom + Sides)
Each bar contains an array of IR LEDs to provide a light source for object detection.

Bridge Connector
Components are physically and electrically connected together using a passive bridge.

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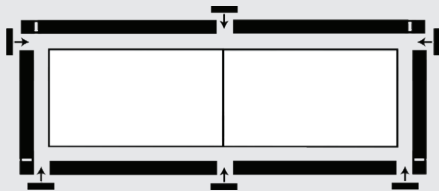
Also included with Dashboard, are comprehensive monitoring capabilities that allow users to quickly assess the health of their ShadowSense frames, ensuring 24/7 operation of the most critical applications.
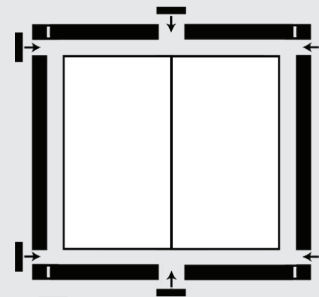
Common Configurations

Its patented modular design allows the Modular Touch System to adapt to your video wall requirements. A Base Kit consists of a 2X1 configuration upon which a touch frame of various sizes can be built. Each Vertical Expansion Kit increases the height of the frame by one display, while each Horizontal Expansion Kit increases the width by one display. Adding Horizontal Expansion Kits also increases the number of touch points for multi-user experiences.
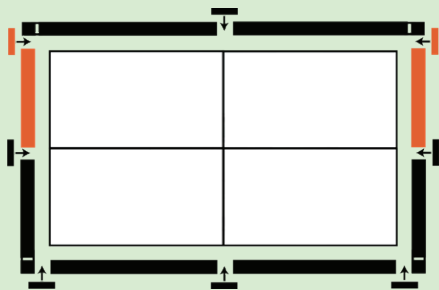
Landscape Base Kit
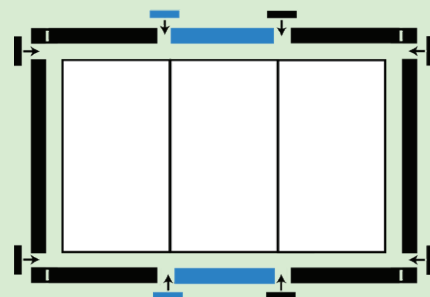
1 BASE
10 Touch Points

Portrait Base Kit

1 BASE
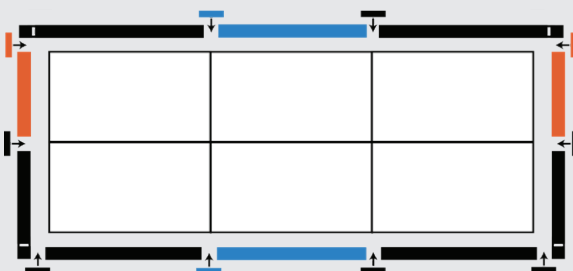10 Touch Points

2X2 Landscape Frame

1 BASE + 1 VERT
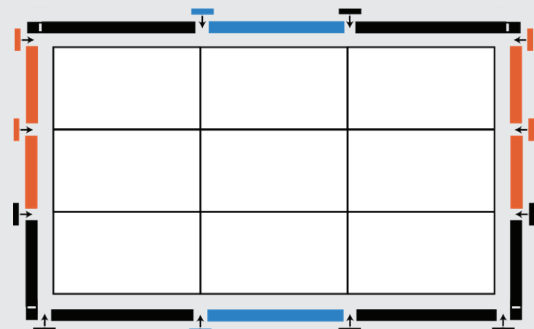10 Touch Points

3X1 Portrait Frame

1 BASE + 1 HORZ
15 Touch Points

3X2 Landscape Frame

1 BASE + 1 VERT + 1 HORZ
15 Touch Points

3X3 Landscape Frame

1 BASE + 2 VERT + 1 HORZ
15 Touch Points

━━━━ Base Kit   ━━━━ Horizontal Expansion Kit   ━━━━ Vertical Expansion Kit

Specifications

Touch	
Touch Points	12 (included with Base Kit) + 6 for each additional Horizontal Expansion Kit*
Touch Method	Finger, gloved hand, stylus or any other physical object (with palm recognition)
Pen and Eraser	4 passive pens and 1 passive eraser (all HID-compliant)
Electrical	
Power Supply	12 V/2.5 A (included with Base Kit)
Mechanical	
Frame Width	39.0 mm
Frame Depth	19.3 mm
Other	
Interface	USB 2.0 HID-compliant (no driver required)
Operating System	Windows 10/8/7 (including embedded versions), Mac OS X, Linux (Ubuntu, Fedora), Android

Maximum of 20 touch points.
***Additional specifications vary with size, display orientation and configuration. Consult with a Baanto representative for details.*

Ordering Information

Size	Display Orientation	Part Number	Description
46"	Landscape	SDW-MTS-46L-BASE	46" Landscape Base Kit
		SDW-MTS-46L-HORZ	46" Landscape Horizontal Expansion Kit
		SDW-MTS-46L-VERT	46" Landscape Vertical Expansion Kit
	Portrait	SDW-MTS-46P-BASE	46" Portrait Base Kit
		SDW-MTS-46P-HORZ	46" Portrait Horizontal Expansion Kit
		SDW-MTS-46P-VERT	46" Portrait Vertical Expansion Kit
49"	Landscape	SDW-MTS-49L-BASE	49" Landscape Base Kit
		SDW-MTS-49L-HORZ	49" Landscape Horizontal Expansion Kit
		SDW-MTS-49L-VERT	49" Landscape Vertical Expansion Kit
	Portrait	SDW-MTS-49P-BASE	49" Portrait Base Kit
		SDW-MTS-49P-HORZ	49" Portrait Horizontal Expansion Kit
		SDW-MTS-49P-VERT	49" Portrait Vertical Expansion Kit
55"	Landscape	SDW-MTS-55L-BASE	55" Landscape Base Kit
		SDW-MTS-55L-HORZ	55" Landscape Horizontal Expansion Kit
		SDW-MTS-55L-VERT	55" Landscape Vertical Expansion Kit
	Portrait	SDW-MTS-55P-BASE	55" Portrait Base Kit
		SDW-MTS-55P-HORZ	55" Portrait Horizontal Expansion Kit
		SDW-MTS-55P-VERT	55" Portrait Vertical Expansion Kit