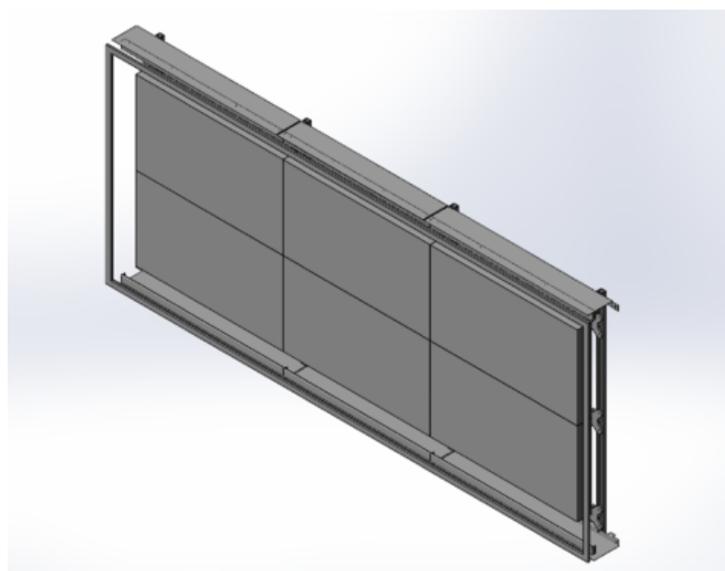## Barco UniSee Video Wall Touch Overlay

The UniSee touchscreen system from TSItouch has been designed to easily integrate over the top of most popular UniSee configuration adding interactivity and collaboration to any application, inspiring multiple users to engage, share and bring content to life. The solution is based off a 32 Point Infrared Touch Overlay designed by TSItouch, which has up to a 6ms response time and touch accuracy within 2mm. Fast tracking speed and high accuracy touch engagement add to the already intuitive experience allowing for easy navigation of any multitouch application. Applications are endless with target sectors including command and control rooms, broadcast sets, corporate lobbies, exhibition sets, and retail. The Unisee TSItouch screen adds a whole new dimension to your videowall visualization experience.

The touch screen system from TSItouch is compatible with both landscape and portrait oriented UniSee video wall configurations. The TSItouch system is compatible with any landscape mounted video wall configuration at a maximum of 2 displays high and at a maximum of a 500" diagonal. For portrait mounted video walls, the TSItouch system is compatible with any configuration at a maximum of 1 display high with a maximum of a 500" diagonal.

Benefits

Fast and accurate touch action – The 32 Point Infrared Touch Overlay provides 6-16ms response time and a +/- 2mm touch accuracy.

Intuitive in use – Natural access to content and application with multitouch and multiple user input, supporting collaborative engagement and accelerating visualization outcomes.

Durable and protected – The full steel chassis provides heavy protection to the sides and outer corners of the video wall displays. Combined with clear tempered safety glass, the bezel provides a high level of protection to the video wall displays.

Easy screen access – Protective glass may be removed modularly to access the displays behind each piece, in the case of monitor failure.

24/7 reliability – The UniSee TSItouch screen is built to last and more than capable of resisting the demands of any heavy use environment.

Solution Description

The Barco Unisee videos have a "No Gap" technology that eliminates the bezel on the sides of the monitor. This allows for a full picture view with minimal gaps between monitors. The overlay, designed by TSItouch, will be mounted and installed on an Unistrut video wall mounting system. If the monitors are in landscape orientation, one piece of protective glass will cover one column in this configuration. In portrait orientation, the glass will protect two columns of the monitors. The configuration is restricted to a maximum height of two monitors in landscape and one monitor in portrait. The video wall will include infrared touch to allow user-friendly interaction with the content. The bezel will surround and protect all of the components to complete a finished solution.

Technical Description

The TSItouch Unisee overlay is designed with a cold-rolled steel bezel, infrared touch technology, and 1/4" clear tempered glass attached to the Unistrut mounting system. This unique overlay allows access to the monitors, interactive touch functionally, strong protection, and a clean cosmetic look for the solution. The UniSee displays do not allow for any type of touch overlay to be mounted to the displays. A 120mm space is required between the monitors and the frame of the touch and bezel. This provides access for monitor repairs or maintenance. To overcome this needed space, the TSItouch overlay is mounted directly to the Unistrut wall mounting system that the UniSee displays are mounted to. This allows the touch overlay to float around the video wall solution with the required 120mm of clearance. The glass used to protect the displays is equipped with a 120mm black border that hides the maintenance access gap to the users eye. The protective glass is mounted into the overlay in front of the displays. The glass can be easily removed from the overlay to allow access to the displays for any maintenance. The touch technology can be calibrated to increase touch accuracy from the adjustment of the distance between the monitors and outer frame. The cold-rolled steel bezel provides rigidity and protection for the solution. The bezel also extends to back to the wall, which will cover the hardware behind the monitors. This allows the entire solution to have a clean cosmetic finish with no exposure to the hardware behind the displays.

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The world needs more touch
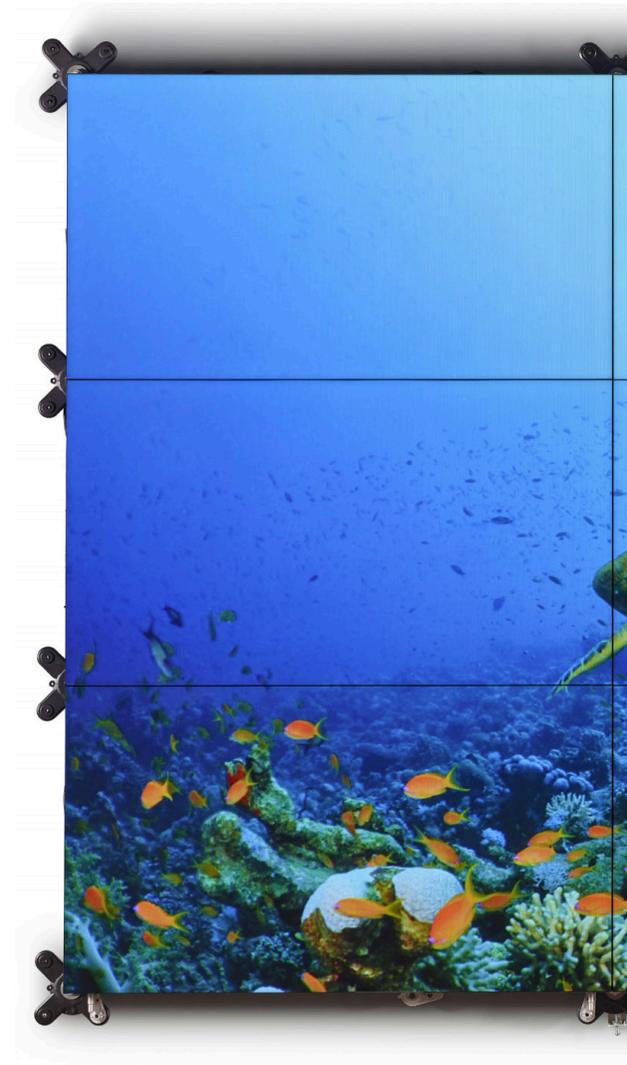
BARCO **TSi**touch

Barco Unisee

When designing the modular Barco UniSee® system, Barco optimized all aspects of LCD video walls. By introducing an extremely reliable image, unmatched uniformity, a barely noticeable intertile gap and higher reliability, Barco UniSee® creates a viewing experience never seen before in LCD video walls - making Barco UniSee® the preferred choice in control room, corporate, or retail environments.

NoGap Technology - for an undistracted visual experience. The rather large gap (bezel) between tiles in conventional LCD video walls makes it difficult to distribute content over multiple tiles. Barco UniSee®'s virtually seamless NoGap technology ensures the best possible, uninterrupted viewing experience - preventing visual information loss.

Sense X - ensuring a balanced viewing experience over time. Using real-time sensors that continuously measure color and brightness - and make adjustments as soon as necessary - Barco's Sense X automatic calibration system ensures that the entire wall displays a perfectly balanced image at every moment, reproducing the image as it is intended to be. Sense X counters any shifts in brightness or color that occur in video walls over time, and that become far more notice-able as the bezel becomes thinner.

Unmatched Uniformity - no colorations in the edges.
A typical challenge with LCD panels is uniformity: normally, you can notice a variation in brightness between the center and the edges, especially when displaying light colors. But with Barco UniSee®, Barco has completely re-engineered the design of the panels to counter all possible variations in brightness. The result is perfect intra-tile uniformity, never seen before on LCDs.

Suited for ambient daylight conditions

Barco UniSee® delivers a typical brightness of 800 NIT, giving you the power needed to optimize the video wall's ergonomics to any lighting conditions - including ambient daylight. What's more, ambient lighting reflections are minimized by the haze level of only 44% making Barco Uni-See® ideally suited to visualize your corporate messages in lobbies as well.

Great for dark backgrounds

Barco UniSee®'s very high contrast ensures that there is no 'glowing' effect of light content on static dark backgrounds.

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The world needs more touch

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TSItouch Infrared Touch Overlay

The TSItouch solution is Infrared (IR) based, allowing for a high accuracy interactive experience. The usage of IR technology allows for virtually any input to be detected (pen/stylus, user's fingers, palms, gloved fingers). The TSItouch overlay is a full steel chassis integrated with tempered cover glass which increases durability, adding a high level of protection to the displays.

Infrared Touch Technology

Infrared touch screens operate on the basis of light-beam interruption, commonly referred to as beam break, to determine the location of touch events. Infrared uses an array of X-Y infrared LED and photo detector pairs around the edges of the screen to detect a disruption in the pattern of LED beams. These LED beams cross each other in vertical and horizontal patterns. As an object touches the screen, it interrupts the light-beam causing a loss of light at the sensor. This loss of light is used to determine the location of the touch event, helping the sensors pick up the exact location of the touch. A major benefit of such a system is that it can detect essentially any input including a finger, gloved finger, stylus, or pen. Available Sizes 30" to 500".

Protective Glass and Cold Rolled Steel Bezel

The TSItouch protective solution is a full steel chassis integrated with tempered cover glass, which increases durability and protects the display. The cold rolled steel bezel construction prevents bending and/or warping and provides rigidity to the video wall solution. The use of tempered protective glass allows for a scratch and break resistant video wall solution. If broken, tempered glass breaks down into harmless pebbles of glass, rather than the dangerous shards produced by chemically strengthened glass. With no plastic parts, no sharp edges, tempered protective glass, and a powder coated finish, the touch overlay is both highly durable and safely usable by all customers.

Multi-Touch Display
True multi-touch support with 6, 12, or 32 simultaneous touch points for all major operating systems

Superior Design
Cold rolled steel chassis combined with tempered glass provides protection to the LCD displays

24/7 Commercial Grade Display
Commercial grade display with around the clock functionality

HID Compliant
Maximum compatibility with numerous operating systems. Plug-and-play

Ultra-Fast Response Time
Allows for split second reactions between touch points and screen. Rapid and smooth touch response

Branding Free
Branding/logo free to avoid attention being diverted from your brand and message

Easy to Clean
Water and dust resistant

Customizable
Custom color silk screening and logos available

Barco UniSee Video Wall Touch Overlay

About TSItouch

TSItouch is a manufacturer of touch screen and protective solutions for commercial grade displays and video walls. Customer satisfaction is our top priority. That's why we offer our customers the best products the industry has to offer. We are dedicated to consistently providing our customers with high quality, cost-effective products and services. TSItouch is an employee-owned business located in Uniontown, Pennsylvania. TSItouch was established as an independent company in 2011.

About Barco

Barco is a global leader in immersive and collaborative visualization for situation rooms, executive briefing centers, board rooms and control rooms for crisis communications, emergency operations, energy, transportation and other 24/7, mission-critical environments. Our comprehensive portfolio features near-seamless LCD video walls and completely seamless rear projection LED and RGB Laser video walls, which facilitate knowledge-sharing and promote better, faster decision-making.

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