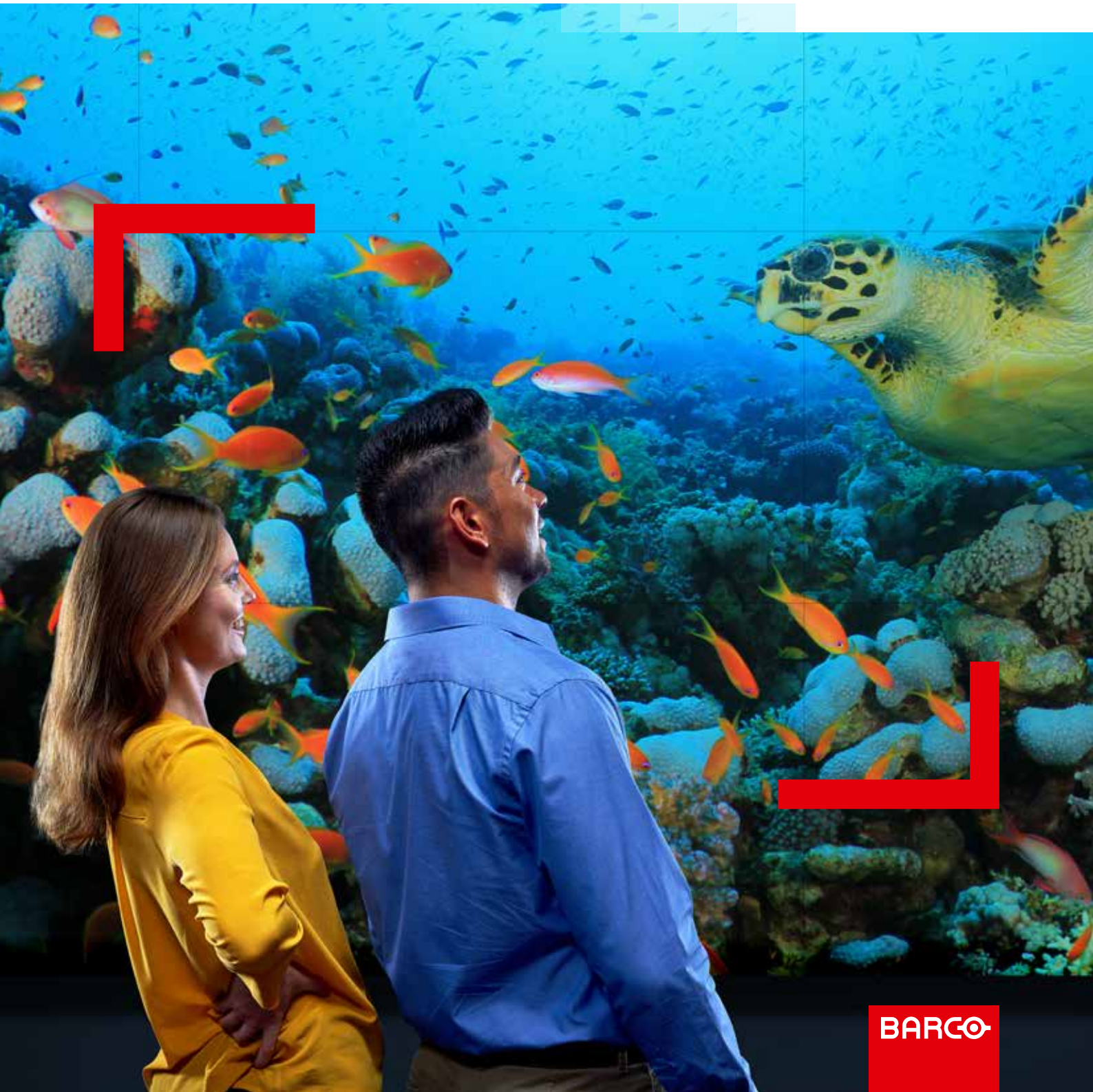


# Discover the unseen

Barco UniSee®, revolutionizing the LCD video wall experience





Barco UniSee®

# Revolutionizing the LCD video wall experience

Sometimes a new innovation creates a revolution that reshapes the entire market. With the Barco UniSee® system, Barco completely redesigned and optimized every component of the LCD video wall, resulting in a new way to look at large screen visualization.

## One system, three building blocks

Barco UniSee® consists of: **UniSee View**, **UniSee Mount**, and **UniSee Connect**. Together, these three building blocks define the future of LCD video walls.

### UniSee View

Offers an uninterrupted NoGap viewing experience, creating the greatest images ever seen on LCD video walls



#### UniSee Mount

Ensures the precise self-alignment of the LCD tiles while protecting the panel's edges and keeping them perfectly aligned over time

#### UniSee Connect

Introduces self-configuration and calibration of the entire video wall via an open software platform, for fastest diagnostics and servicing

## 10 reasons to choose Barco UniSee®

- 1.** Uninterrupted viewing experience with NoGap technology
- 2.** Perfectly balanced total image, thanks to Sense X continuous and real-time calibration
- 3.** 100,000 hours backlight ensuring a longer lifetime
- 4.** No dark edges, superior intra-tile uniformity
- 5.** Ensured precise installation with automatic alignment, without risk of damage
- 6.** Innovative services to simplify your day-to-day operations
- 7.** Modular, future-proof system, grows with your needs
- 8.** Fanless - optimizing reliability and eliminating noise
- 9.** More reliability with remote or integrated redundant power supply
- 10.** Fastest diagnostics, swift servicing, and easy connection with AV controllers, via open software based management platform





## UniSee View

# An uninterrupted LCD viewing experience

When designing the modular Barco UniSee® system, we optimized all aspects of LCD video walls. By introducing an extremely reliable image, unmatched uniformity, a barely noticeable inter-tile 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.

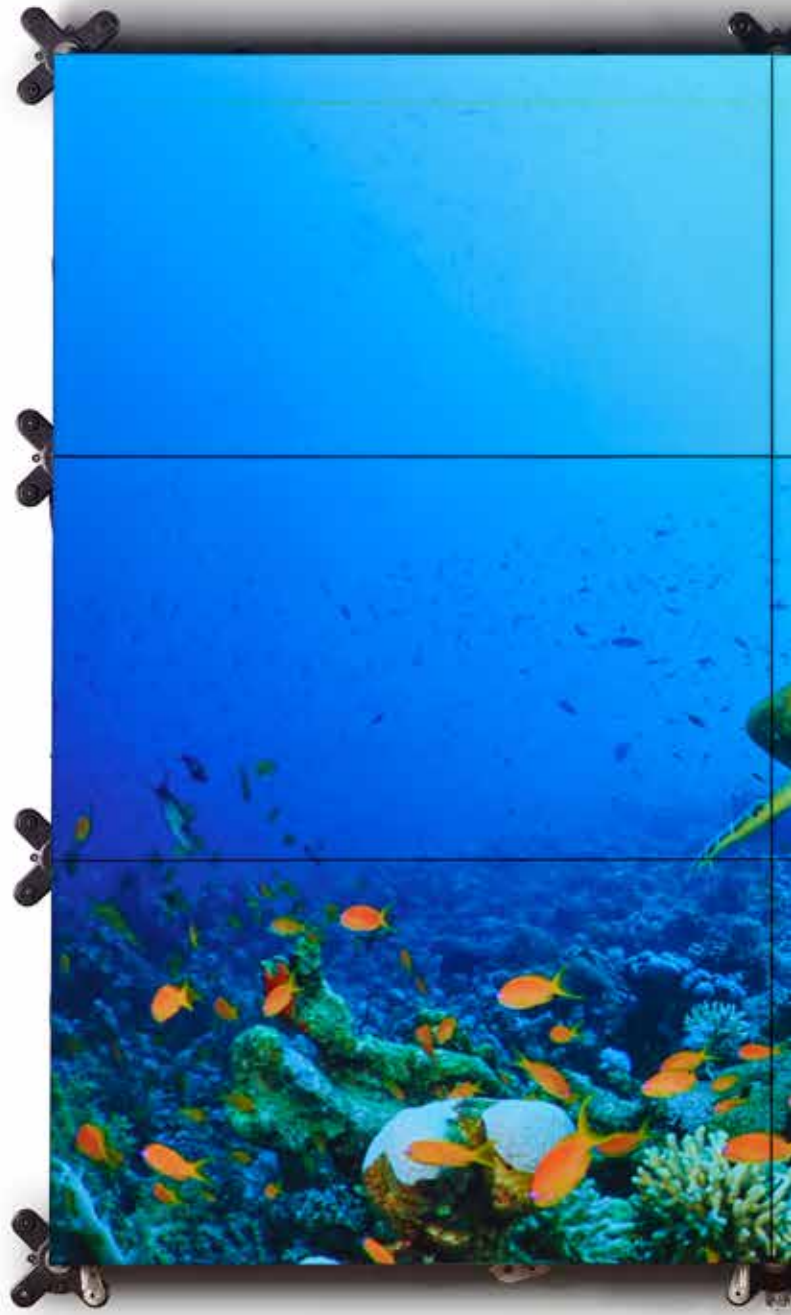
### NoGap technology - for an undistracted visual experience

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 noticeable 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 UniSee® 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.



## UniSee Mount

# Self-aligned by the power of gravity



When using seamless video walls, it becomes even more important to perfectly align all tiles in order not to distract the viewing experience. Therefore the mounting structure is a key element of the video wall system, as it ensures the precise alignment of the panels without damaging the sensitive edges.

That's why Barco has completely redesigned the mounting structure, adapting it to the new generation of bezel-less video walls. The result is the UniSee Mount - sheer mechanical innovation that uses the power of gravity to keep the panels perfectly in place, allowing you to distribute uninterrupted content across multiple screens.

UniSee Mount's self-alignment guarantees the smallest possible gap

### Always the smallest possible bezel

Aligning the displays of an LCD video wall can be a tedious job. The UniSee Mount simplifies the complexity of creating a perfectly aligned wall, keeping the tolerances and the screen gaps under control. Using the power of gravity, the screens slide into perfect position automatically, in any direction along the X, Y and Z axes. In this way, UniSee Mount helps to ensure a sub-mm precise installation, even for very large video walls. This is impossible to achieve using normal VESA structures.

### Adapts to your needs

The UniSee Mount allows both portrait and landscape orientations. Without any customization, it allows all possible video wall configurations.

### Also available: curved configuration

Barco and display mount specialist Vogel's jointly developed a curved mounting solution for Barco UniSee®. This allows to install a concave curved wall, with curvature up to 10 degrees in 1 degree steps, while still keeping the many benefits of the UniSee Mount system. For a full overview of the available third-party add-ons for Barco UniSee®, refer to the page [www.barco.com/unisee/ecosystem](http://www.barco.com/unisee/ecosystem).





## Protecting the edges

The problem with traditional wall mounts is that they are extremely rigid. This means that there is no flexibility during installation. So you install the screens either with bigger inter-screen gaps, or - when you try to align them perfectly together - you risk damaging the panel edges. UniSee Mount's self-alignment mechanism makes sure the panels align gently, creating the best possible viewing experience, risk-free.



## Easy servicing

Another revolutionary aspect of the UniSee Mount is that it facilitates servicing. Using a simple wrench to move the adjacent screens, all individual panels are easily accessible from the front - even the middle panels. Each panel can be taken out swiftly and securely, making and maintenance easier. Moreover, cabling and electronics can also be pre-tested before screen installation.



Servicing and replacing the middle panel has never been easier



## UniSee Connect

# Bright investments never fade

A video wall is often part of a business-critical application that needs to be operational at all times. That's why Barco took all possible measures in the design phase to ensure the system's uptime. What's more, the system is built in such a way that it can easily be diagnosed and serviced, reducing potential downtime to the absolute minimum.



### Upgradable

Although Barco UniSee® has all the latest technology on board, new innovations or standards might appear during the system's lifetime. Barco UniSee®'s modular design ensures that upgrades to newer technologies can be introduced without the need to rip and replace the entire system.

### No noise distractions

There are zero cooling fans in the Barco UniSee® system. In other words, the system has no components that create noise or that are susceptible to failure, so Barco UniSee® operates silently and uninterruptedly.



Adding the input board, power supplies and cabling on the UniSee Mount system





## The longest lifetime

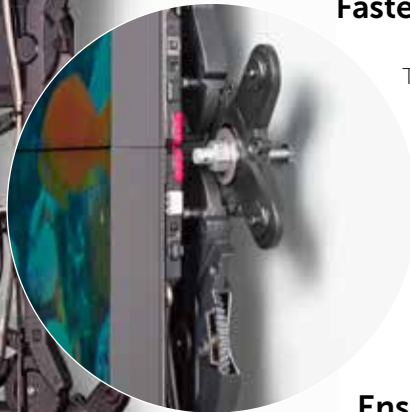
With a lifetime of 100,000 hours, Barco UniSee®'s backlight is built to last - about 67% longer than the mainstream solutions.

## Fastest diagnostics and servicing

UniSee Connect is an open software platform that manages the entire video wall, automatically assigning and calibrating the panels. It also provides a single point of connection for remote diagnostics and control, ensuring that a Barco UniSee® video wall can be diagnosed and serviced even faster.

## Faster repair

The modular design has another benefit: the components can be serviced a lot faster, guaranteeing a more cost-effective solution. Most repairs can even be done on-site, reducing downtime of the entire Barco UniSee® wall to an absolute minimum. When servicing a particular screen, the other tiles of the video wall will remain operational.



## Ensure uptime and avoid unplanned interruptions

Because the power supply is one of the most critical components of an LCD video wall, Barco offers the possibility to include a redundant power supply that automatically takes over should the primary unit fail. This can be positioned either inside the panel or in an external location. The main advantage of the redundant and remote power supply is that a defective unit is hot-swappable and can be replaced without a second of downtime.

## Loop-through limits cabling

With the 4K loop-through capability, all video signals can be sent to the Barco UniSee® display wall using a single video cable connection from the controller. This reduces the cost of the cabling, especially when the controller is located remotely from the video wall. Furthermore, the loop-through capability eliminates the cabling mess created when every panel has to be connected to the controller individually.

Technology you can trust

# A revolution, by Barco

Barco UniSee® is a 100% Barco product. All components are completely designed and manufactured in-house. Not only does this give us total control over the quality of every component, but we can also guarantee backwards compatibility, serviceability and upgradeability for many years to come. So, as there is no risk that a component becomes unavailable a few years from now, your investments are fully safeguarded.



## Decades of experience in large video walls



Barco UniSee® was developed in Germany, at our dedicated design center, with decades of experience in large video walls. Spanning 10 generations of rear-projection and LCD video walls, our R&D department has a clear understanding of the specific needs of professional markets: reliability, predictability, and cost-effectiveness. All of this knowledge is bundled into the Barco UniSee® system.

## Barco UniSee® services: The level of support you need

Peace of mind doesn't just mean selecting the best video wall - it's also about knowing that any issue will be resolved quickly - and without additional cost - during the lifetime of your video wall. That's why it is important that you select the Barco Care service contract that is right for you. You can choose between different levels that best match your needs. Consult your Barco representative for more detailed information on the availability of these services.

	EssentialCare	FullCare
<b>Support Services</b>	E-portal access, helpdesk availability business hours	E-portal access, helpdesk availability 24/7
<b>Parts coverage</b>	Advance swap, shipment NBD express	Advance swap, shipment NBD express + Next Day hotline for emergencies
<b>On-site assistance/maintenance</b>	Optional (please contact us)	Next Business Day
<b>Software updates</b>	Firmware updates included (no application software updates)	Firmware updates included (no application software update)

### Customer service excellence

Your Barco UniSee® system will be a fully registered product creating transparency and more value for all parties involved. This allows our services teams to operate more efficiently and to improve their effectiveness in terms of response times and issue resolution. Moreover, registration coincides with the start of the warranty on your system.





## Part of a large product portfolio

Barco is a leader in large video walls, in every available technology. Not only LCD, but also RGB laser rear-projection, LED-lit rear-projection and Direct View LED are part of our comprehensive portfolio. In this way, Barco can always offer the best possible technology for your application. What's more, in addition to large video walls, Barco offers additional products that work together to offer you a supreme visual experience. Our product range also includes a full portfolio for visualization, content management and services. For meeting rooms and boardrooms, the ClickShare wireless presentation and collaboration system offers a great way to get content on the screen. Furthermore, Overture – our software-based A/V Control system – lets you control all of your company's connected meeting room devices.

## Presenting Barco's alternatives

Barco UniSee® is the new flagship product of our LCD video wall portfolio. However, if this system does not correspond completely to your needs, we also offer another great LCD video wall range. Our Barco OverView range leads the industry-standard LCD video wall market, whereas our premium Barco UniSee® platform gives you a visual experience never seen before. Here is our complete portfolio, with their main highlights, at a glance:

Specifications	Barco UniSee®	OverView KVD5521B	OverView LVD5521B
Type	LCD	LCD	LCD
Screen diagonal	55"	55"	55"
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Typical brightness	800 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
Total bezel width	None (bezel-less)	UNB (3.5 mm)	ENB (1.8 mm)
Light source lifetime	100,000 hrs	60,000 hrs	60,000 hrs

# Flexibility in any environment

Barco UniSee®'s flexibility does not confine itself to a single market.

With its magnificent images, narrowest screen gap and highest reliability, Barco UniSee® matches the visualization needs of many professionals especially in the corporate environment where it is ideally suited to display compelling content in impressive corporate lobbies, mission critical control rooms, executive board rooms, high-end meeting rooms and many more. Wherever visualization really matters, Barco UniSee® is the best available option. On [www.barco.com/unisee/gallery](http://www.barco.com/unisee/gallery), you can discover a large number of Barco UniSee® deployments, in many different regions and a broad spectrum of applications.



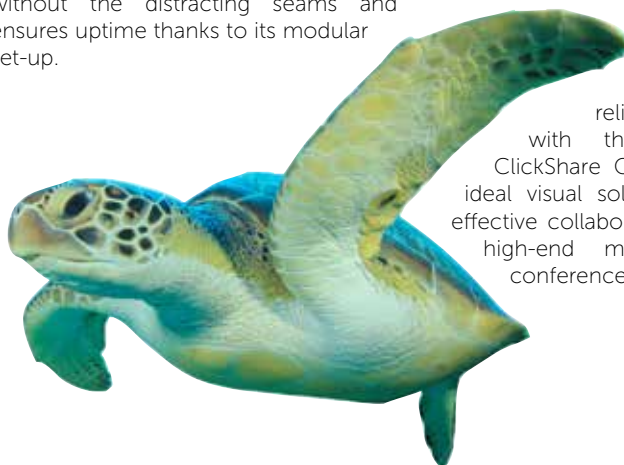
## Corporate lobby

With the Barco UniSee® LCD video wall, companies can capture customers' attention to corporate messages from the moment they enter the lobby or the company's experience center with a seamless display of dynamic images or infotainment content. Integrating the newest Barco LCD video wall solution in the corporate lobby creates a welcoming and inviting atmosphere, adds ambiance without being overwhelming and significantly reduces the perceived waiting time for visitors in reception area.

Barco UniSee® also helps facility managers to build corporate brand image and deliver impressive and compelling content to enhance visual engagement in experience centers.

## Control room

In a control room, where fast response and effective decision making is key, the ability to display and share detailed common operational picture information from various sources is of utmost importance. The newest Barco UniSee® LCD video wall platform helps control room managers to maximize operational performance by displaying relevant and real-time information without the distracting seams and ensures uptime thanks to its modular set-up.



## Executive board room

One of the most important necessities for organizations is an executive board room where top management can accommodate visitors and guests, either through in-person meetings or video conferences. Barco UniSee® is ideally placed to offer visual assistance by providing a seamless viewing experience supporting the most effective management meetings. The Barco UniSee® LCD video wall delivers the finest image quality and highest reliability, and together with the powerful Barco ClickShare CSE-800, it offers the ideal visual solution for the most effective collaboration in boardrooms, high-end meeting rooms and conference rooms.

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice. The latest version of this brochure can be found on [www.barco.com](http://www.barco.com). All specs mentioned in this brochure are in accordance with ISO 21118 standards.