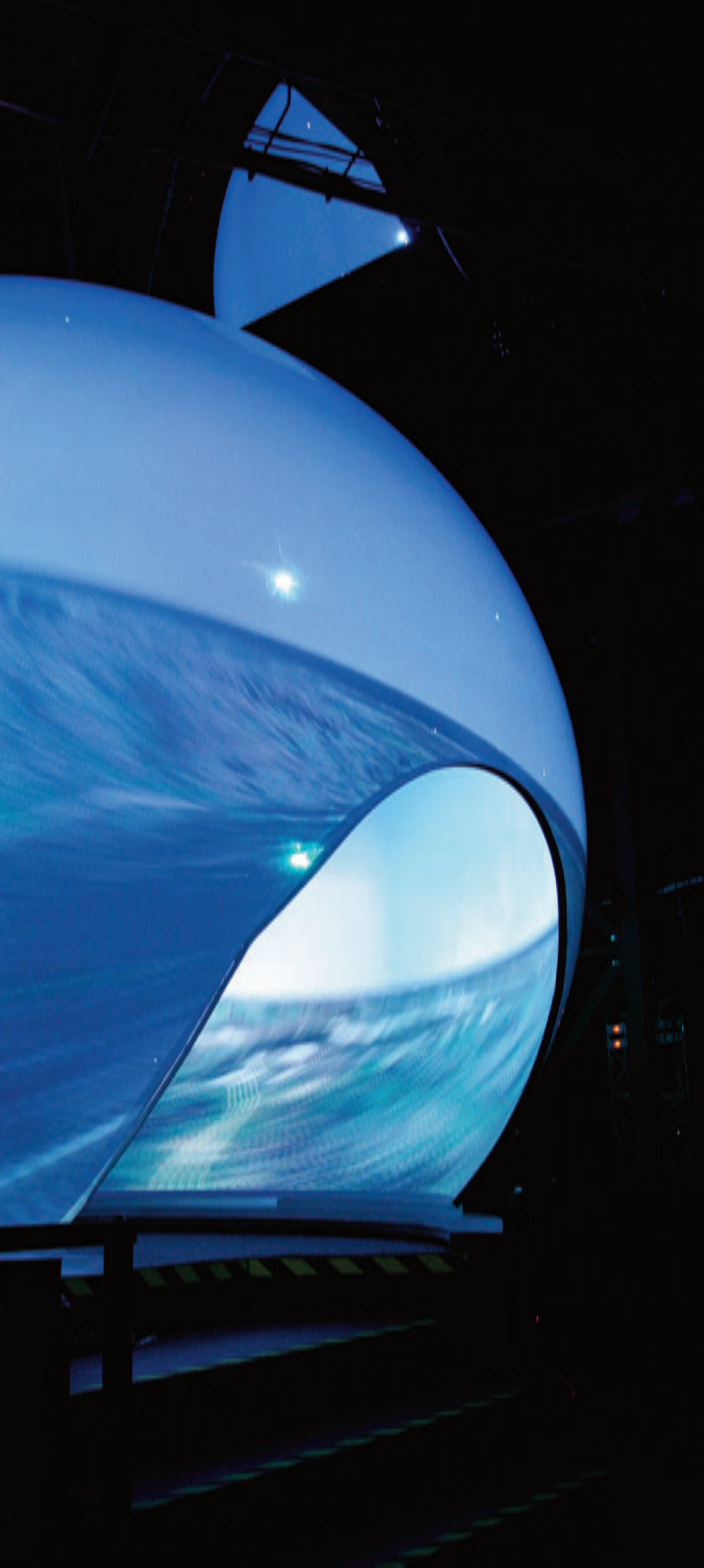


Rear-projected dome display

Welcome to the real world

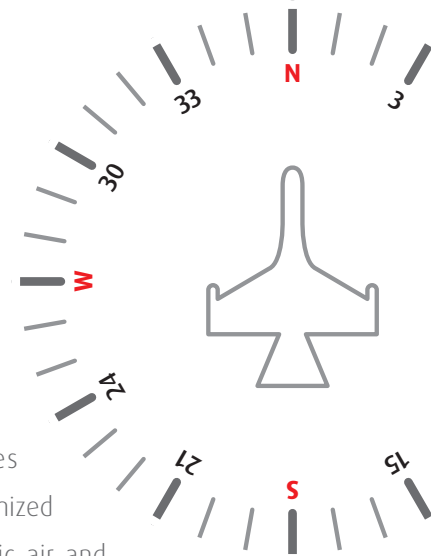
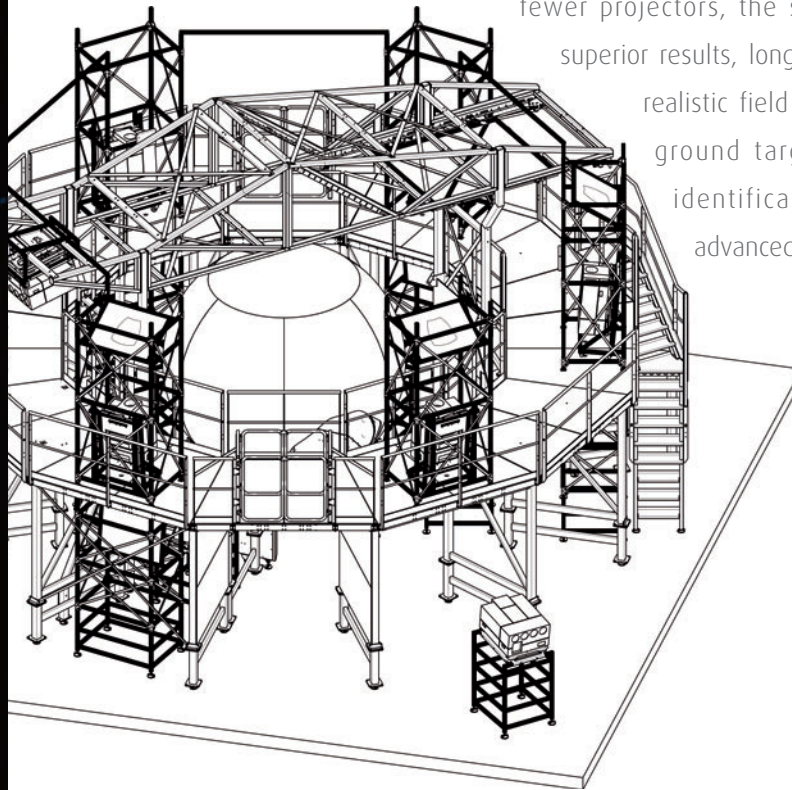


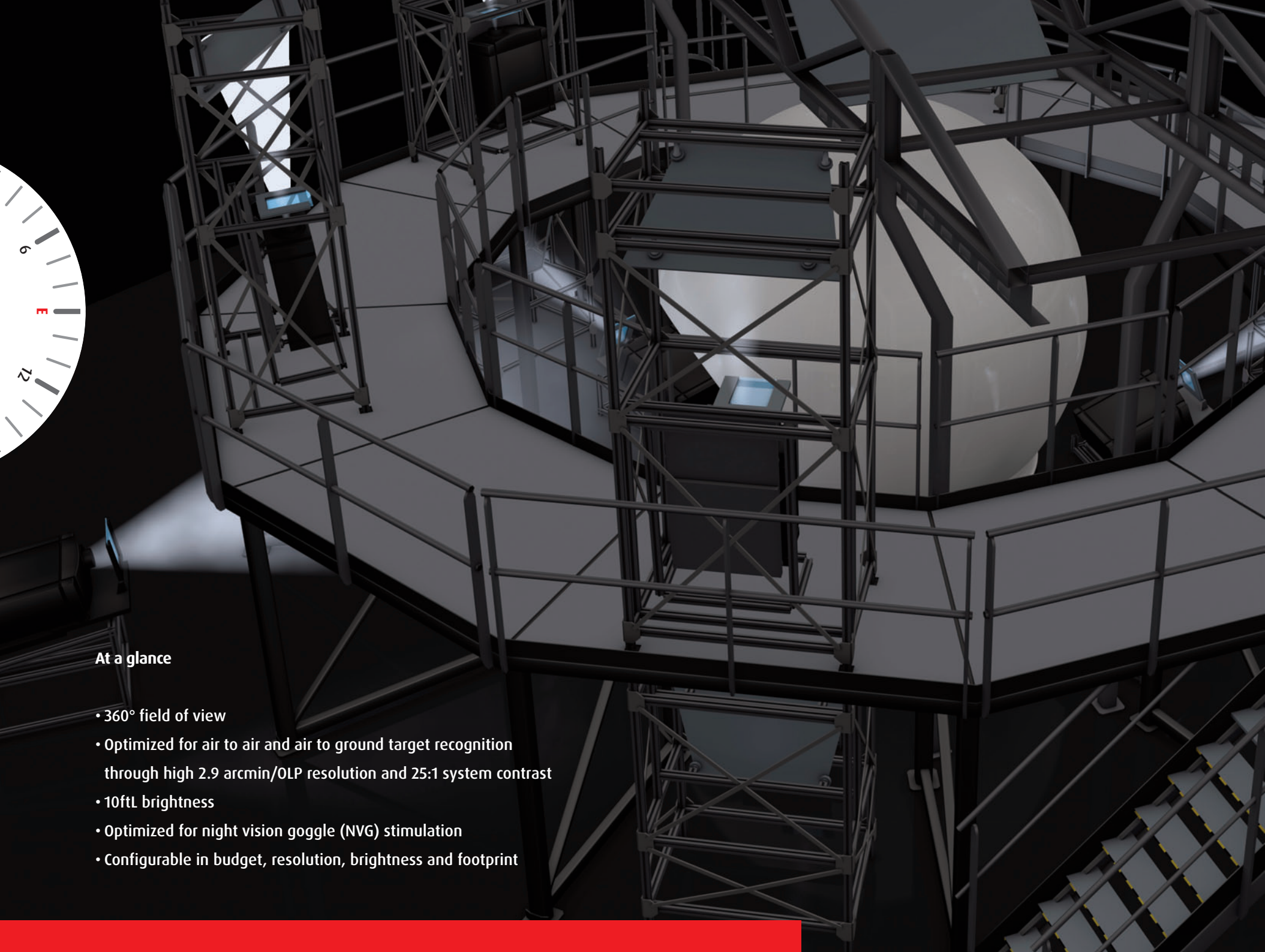


Rear-projected dome display

Barco's rear-projected dome display - the RP-360 - creates a **360° environment** for flight training. This dome is a response to the ever-growing **need to reduce training costs**, by bringing more training tasks to ground-based training systems. This is now possible thanks to the improved level of realism.

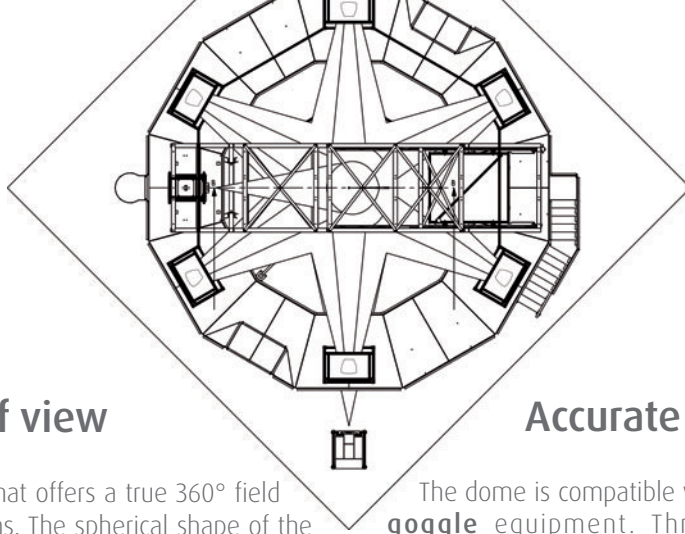
The RP-360 offers the most accurate image quality on the market today. With fewer projectors, the system achieves superior results, long MTBF, an optimized realistic field of view, realistic air and ground target detection, recognition and identification, improved display contrast and advanced scenarios for both night and day training.





At a glance

- 360° field of view
- Optimized for air to air and air to ground target recognition through high 2.9 arcmin/OLP resolution and 25:1 system contrast
- 10ftL brightness
- Optimized for night vision goggle (NVG) stimulation
- Configurable in budget, resolution, brightness and footprint

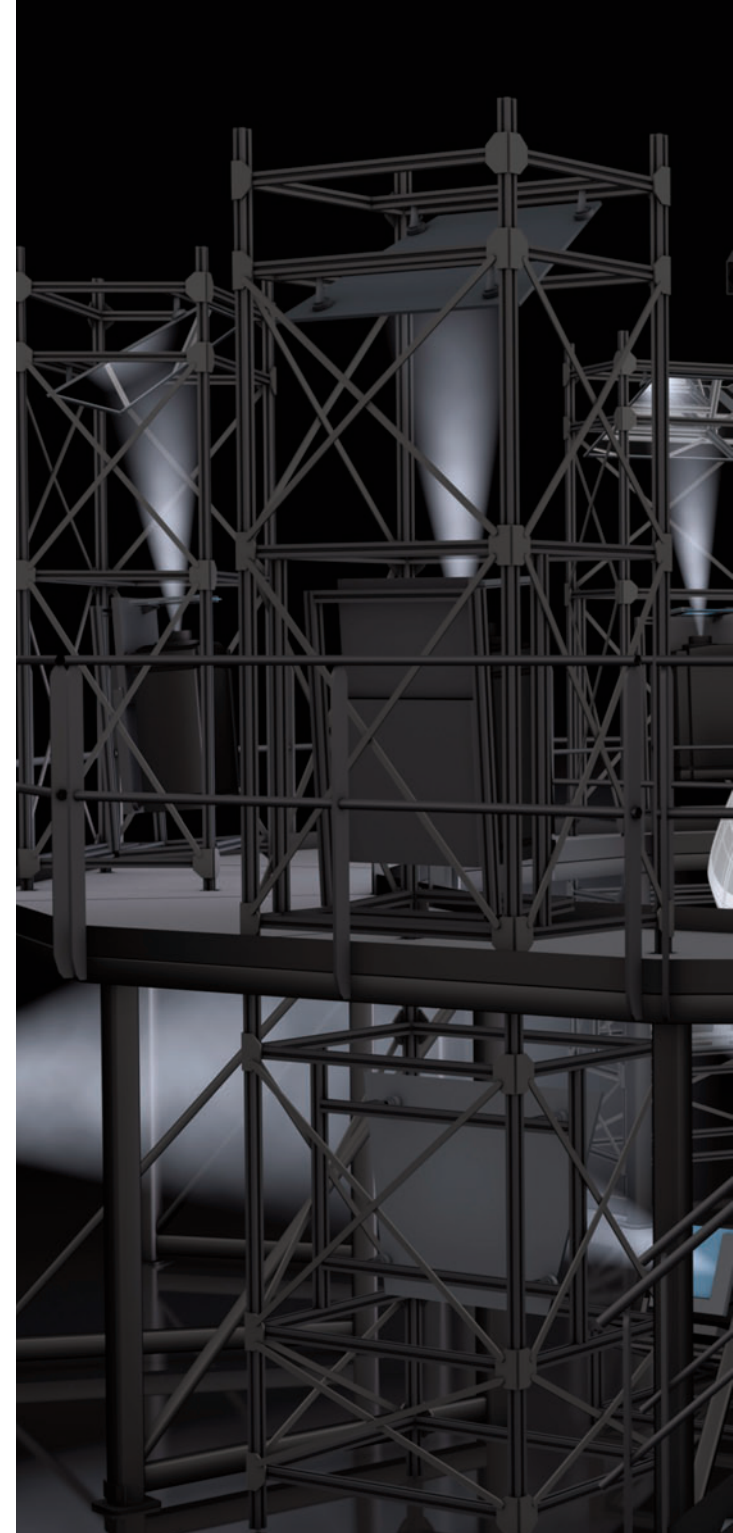
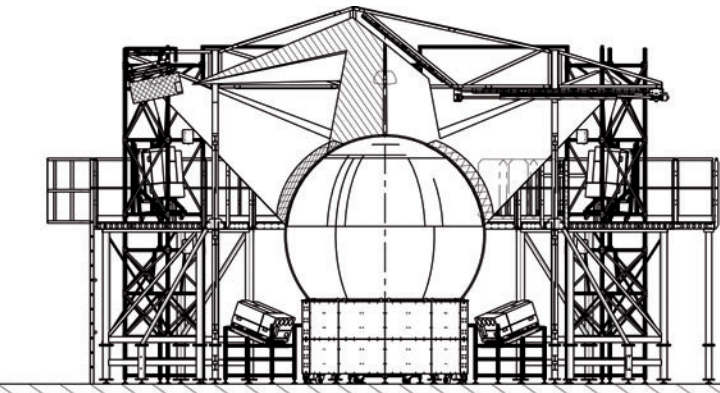


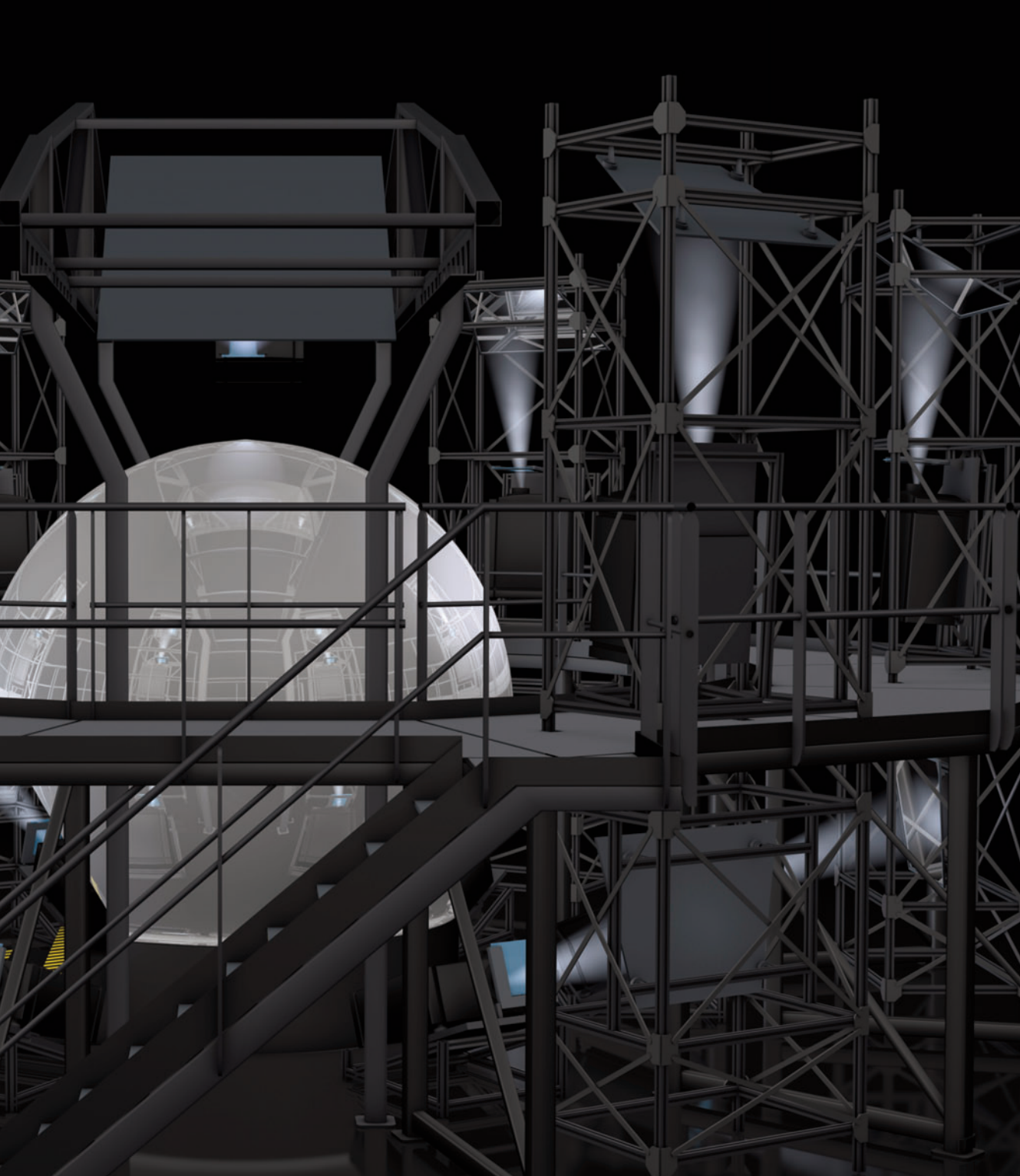
A real field of view

Imagine a simulator that offers a true 360° field of view in all directions. The spherical shape of the screen with the pilot in the center point, creates a pervasive sense of realism and offers constant **eye relief and free head movement**. Because only rear-projection is used, there is no shadow or light disturbance. The assembled, all-spherical screen shows no segments or seams.

Accurate night training

The dome is compatible with actual **night vision goggle** equipment. Through several visual optimizations, the system displays halo and bloom effects with extreme realism. One of these optimizations is the projectors' increased infrared (IIR) spectrum. In this way, pilots can gain experience that is crucial for life-critical night missions.





Real DORI

DORI (Detection, Orientation, Recognition and Identification) requirements are vital to the effectiveness of any simulation system. With the RP-360 dome, pilots can keep track of **fast-moving targets all the time** thanks to the large field of view and visual optimizations such as high system contrast and the smearing reduction technology in the LCoS-based SIM 10 and SIM 7 projectors. The dome handles high-speed imagery effortlessly and offers detailed **2.9 arcmin/OLP** precision. This is extremely close to eye-limiting resolution.





XDS-RACU



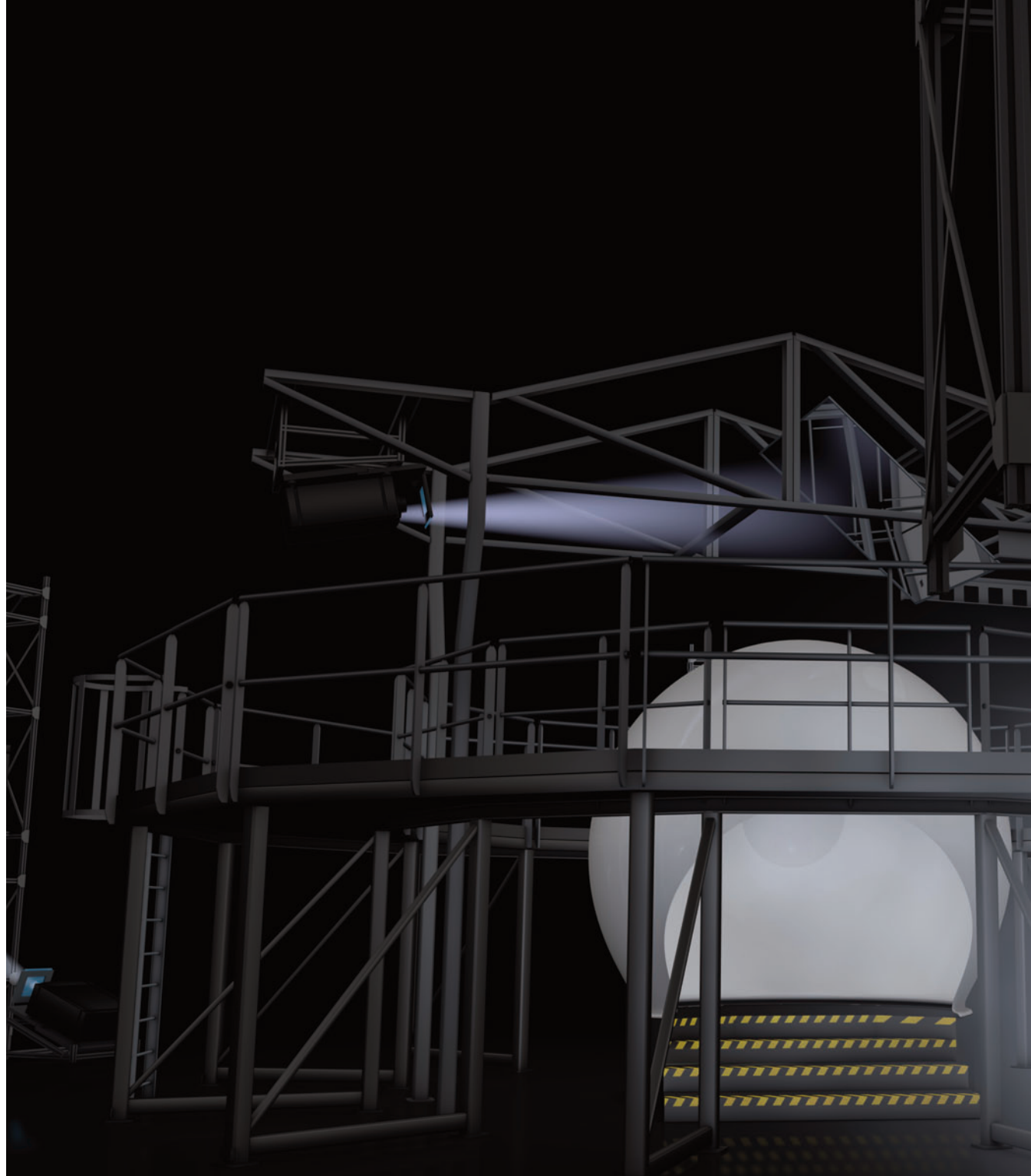
Acuras

Real uptime

Barco's RP-360 dome was **designed with service and a maximum uptime in mind**. In case a projector needs to be swapped, training can continue in less than one hour. Barco's laser diode array trackers (LDAT) indicate the right spot for the projection to be mapped. Barco has also developed an **entire set of alignment tools** (including the Acuras system and the XDS-RACU controller) that make system setups easier, quicker and repeatable with predictable results. In addition, Barco's global service teams ensure fast intervention and efficient, professional assistance.



Projectors can be rolled in and out easily for quick part replacements.





Drastically reduced training costs

To reduce the real flying training cost without jeopardizing the training skills, simulators that allow true-to-life flying conditions are required. Thanks to the improved performance of its visual system, Barco's RP-360 is able to offer these realistic training possibilities. What's more, these superior results are established using fewer projectors than previously thought possible.

The right technology

The standard projector that drives Barco's RP-360 is a **native 10 megapixel projector** with liquid crystal on silicon (LCoS) technology, the SIM 10. For more compact setups, we also offer the SIM 7 projector. Both feature the following **dedicated technologies** for multi-channel setups:

- **Smearing reduction:** handles fast-moving imagery effortlessly
- **Night vision goggle support**
- **Linked constant light output:** brightness equalization across channels, important for TCO and maintenance
- **DynaColor:** automatic color calibration across channels
- **Edge blending:** creates one seamless composite image
- **Warping:** precise geometry correction for curved surfaces



Native 10 megapixel projector for simulation



SIM 7

The setup to suit your needs

Barco's RP-360 system comes in several standard configurations:

- 19ft high, with 13 or 14 SIM 10 or SIM 7 projectors
- 14ft high, with 13 or 14 SIM 10 or SIM 7 projectors

Proven technology

Barco's RP-360 is designed from the ground up with Barco technology. In-house developed, powerful design tools allow us to accurately predict the system's ideal setup and performance, and feedback from the field allows us to improve the design tools and processes each time. The dome's entire mechanical structure, projection and screen technology are all Barco-designed, and the screens have a special coating that increases its overall image quality.



Barco's solutions are not limited to large dome setups alone. Its product range and installed base of systems includes compact SEER mini-domes for flight training, collimated displays for dual-cockpit simulation as well as systems for naval, air traffic control, vehicle and arms training.



M00441-R02-1111-PB November 2011

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SIM 7 series

High-resolution simulation projectors with no speed limits

Now also available
with enhanced brightness



- FAA certified (level D)
- Optimized for multi-channel visualization
- Smear-free operation
- Advanced, zero frame delay warping
- Extended contrast for accurate night/dusk training
- Motion-base simulator compatible
- Stimulated NVG capability (not available on HB models)
- Enabled for automated alignment

Barco's SIM 7 series projectors push the envelope of visualization technology to provide extremely realistic simulation. Equipped with the industry's latest and fastest switching LCoS (Liquid Crystal on Silicon) technology, the SIM 7 series delivers nothing less than razor sharp, no-smear images for high-speed motion and other simulation applications.

The Barco SIM 7 series consists of the SIM 7Q (standard) and the SIM 7Q HB (with high brightness levels). This projector range is optimized for multi-channel visualization to provide exceptional contrast, QXGA (2048x1536) resolution, unmatched dynamic range, seamless image blending, and outstanding performance. Specially developed to meet the real-world demands of commercial and military flight training and mission rehearsal scenarios, the Barco SIM 7 series can be easily integrated into simulation systems with spherical, curved, or flat projection surfaces. If your training applications require visual simulation that is highly realistic, the Barco SIM 7 series give you the best image quality known today, with no speed limits.

BARCO

Visibly yours

Barco's SIM 7 doesn't sacrifice speed for realism - it has both

Optimized for high-resolution, multi-channel visualization

The SIM 7 comes equipped with various Barco engineered technologies that make it ideal for multi-channel simulation projection:

- **Optical and electronic edge blending** eliminate overlap zones where projections converge, to create one seamless image.
- **Linked constant light output (CLO)** guarantees the same brightness levels for the entire composite image.
- **DynaColor and gray level definition** ensure accurate color matching and gradient color definitions across the multi-channel system.
- **Warping** enables correct, undistorted projection without frame delay and loss of pixels on a curved or spherical screen.

True smear-free operation

Its truly unique smear reduction technology allows Barco to provide high-quality smear reduced images, without any impact on the contrast ratio or the dynamic range.

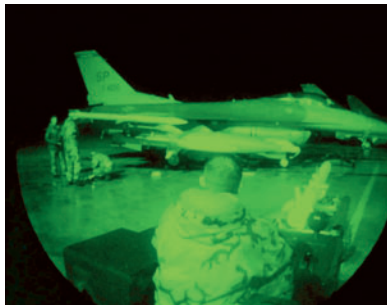


High contrast, deep black levels

Barco's contrast-enhancing features in the SIM 7 make it possible to simulate **true black levels** and attain levels of color gradience as close to a real-life experience as possible. The SIM 7's dynamic contrast ratio can be enhanced to up to 6,000,000:1, which is offered by no other competitor in the industry.

Stimulated NVG capability

As today's combat scenarios take place during night, having pilots fully trained to fly under these conditions is necessary for survival. Barco's night vision goggles (NVG) optimization lets you use the SIM 7Q projectors for true, **realistic NVG stimulation** with ultra realistic blooming and halo night vision effects. This technology is compatible with any current generation of NVGs.



Motion simulator compatibility

The Barco SIM 7 can be equipped with a motion-base compatibility option, and it is ruggedized to withstand the high G-forces of motion vibration.

Enabled for automated alignment

Quickly and easily setup your multi-channel SIM 7 display system with Barco's advanced automated alignment system and remote display controller.

Brightest LCoS simulation projector on the market

The SIM 7Q HB introduces a new brightness standard in simulators. Its stunning brightness level (typically 2,800 lumens) was designed specifically for use in environments where light output is a critical issue, and allows the projection of exceptionally realistic day-scenes. Unlike competing models, these brightness levels are in no way compromised by the projector's contrast enhancement functionality.

SIM 7P series

All SIM 7 series projectors are also available in **portrait mode**, enabling a much higher vertical field of view compared to traditional solutions.

	SIM 7Q HB	SIM 7Q	SIM 7QP HB	SIM 7QP
Resolution	QXGA (2048x1536)		1536x2048	
Brightness (lumens)	Typ. 2800	Typ. 2000	Typ. 2500	Typ. 1800
Aspect ratio	4:3		3:4	
Contrast ratio	high dynamic contrast ratio up to 6,000,000:1			
Warping	gen 3 WARP			
Latency	down to 3.5ms			

M00154-R02-1111-DS November 2011



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Visibly yours

SIM 7 series

High-resolution simulation projector with no speed limits



- Optimized for multi-channel visualization
- Smear-free operation
- Advanced, zero frame delay warping
- Extended contrast for accurate night/dusk training
- Motion-base simulator compatible
- **Enhanced**, stimulated NVG capability
- Enabled for automated alignment

Barco's SIM 7 series projectors push the envelope of visualization technology to provide extremely realistic simulation. The Barco SIM 7 series is equipped with the industry's latest and fastest switching LCoS (Liquid Crystal on Silicon) technology, which delivers nothing less than razor sharp, no-smear images for high-speed motion and other simulation applications.

The Barco SIM 7 series is optimized for multi-channel visualization to provide exceptional contrast, unmatched dynamic range, seamless image blending, and outstanding performance. Specially developed to meet the real-world demands of commercial and military flight training and mission rehearsal scenarios, the Barco SIM 7 series can be easily integrated into simulation systems with spherical, curved, or flat projection surfaces. If your training applications require visual simulation that is highly realistic, the Barco SIM 7 series give you the best image quality known today, with no speed limits.

BARCO

Visibly yours

Barco's SIM 7 doesn't sacrifice speed for realism - it has both

Optimized for high-resolution, multi-channel visualization

The SIM 7 comes equipped with various Barco engineered technologies that make it ideal for multi-channel simulation projection:

- **Optical and electronic edge blending** eliminate overlap zones where projections converge, to create one seamless image.
- **Linked constant light output (CLO)** guarantees the same brightness levels for the entire composite image
- **DynaColor and gray level definition** ensure accurate color matching and gradient color definitions across the multi-channel system.
- **Warping** enables correct, undistorted projection without frame delay and loss of pixels on a curved or spherical screen.

True smear-free operation

Thanks to Barco's display optimizations and the system's fast refresh rates, the SIM 7 produces high-quality images on par with CRT technology - but at a much lower price. This renders the SIM 7 the next-generation projector of choice for fast-jet training and other visually intensive simulation applications.



High contrast, deep black levels

Barco's contrast-enhancing features in the SIM 7 make it possible to simulate **true black levels** and attain levels of color gradience as close to a real-life experience as possible. The SIM 7's dynamic contrast ratio can be enhanced to up to 6,000,000:1, which is offered by no other competitor in the industry.

Stimulated NVG capability

As today's combat scenarios take place during night, having pilots fully trained to fly under these conditions is necessary for survival. Barco's night vision goggles (NVG) optimization lets you use the SIM 7 series projectors for true, **realistic NVG stimulation** with ultra realistic blooming and halo night vision effects. This technology is compatible with any current generation of NVGs.



Motion simulator compatibility

The Barco SIM 7 can be equipped with a motion-base compatibility option, and it is ruggedized to withstand the high G-forces of motion vibration.

Enabled for automated alignment

Quickly and easily setup your multi-channel SIM 7 display system with Barco's advanced automated alignment system and remote display controller.

Increased infra-red spectrum

To stay as close to real-life situation as possible **during night training**, Barco's SIM 7 series can be equipped with an increased infra-red (IIR) option. This option assures a perfect balance between visible and infrared light, realistically matching that of real-world night circumstances. Consequently, night-sky illuminated objects with a certain visible luminance will have the correct associated IR luminance for NVG stimulation enhancing the sense of realism for a pilot training with today's state of the art NVGs.

	SIM 7Q	SIM 7D	SIM 7QP	SIM 7DP
Resolution	QXGA (2048x1536)		1536x2048	
Aspect ratio	4:3		3:4	
Contrast ratio	high dynamic contrast ratio up to 6,000,000:1			
Latency	down to 2ms			
Warping	gen 3 WARP	TwinWarp	gen 3 WARP	TwinWarp

R990064 November 2009

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SIM 10

10 megapixel training and simulation projector



Barco's SIM 10 brings together the most forward-thinking technologies available in projection for training and simulation, to help achieve the most realistic image quality possible. The SIM 10 features a native 10 megapixel resolution, a dynamic contrast range of up to 10 million to one and a brightness of up to 6000 lumens.

Down to the smallest detail

A native resolution of 4096x2400 pixels is a lot of pixels. Nearly 10 million, to be exact. And more pixels means more detail, which results in greater realism. As such SIM 10 is the best choice to build eye-limiting resolution systems. With the SIM 10 projector, pilots in training never miss an essential detail again.

High-speed, high-quality imagery

In a fast-paced training scenario, it's essential to quickly identify ally or enemy. Barco's smearing reduction technology ensures that the SIM 10 can handle this intense imagery flawlessly, so that targets are immediately recognizable, even at great distances and moving at fast speeds. The SIM 10 smearing reduction allows it to simulate aircraft rolls previously impossible.

Reduce your total cost of ownership

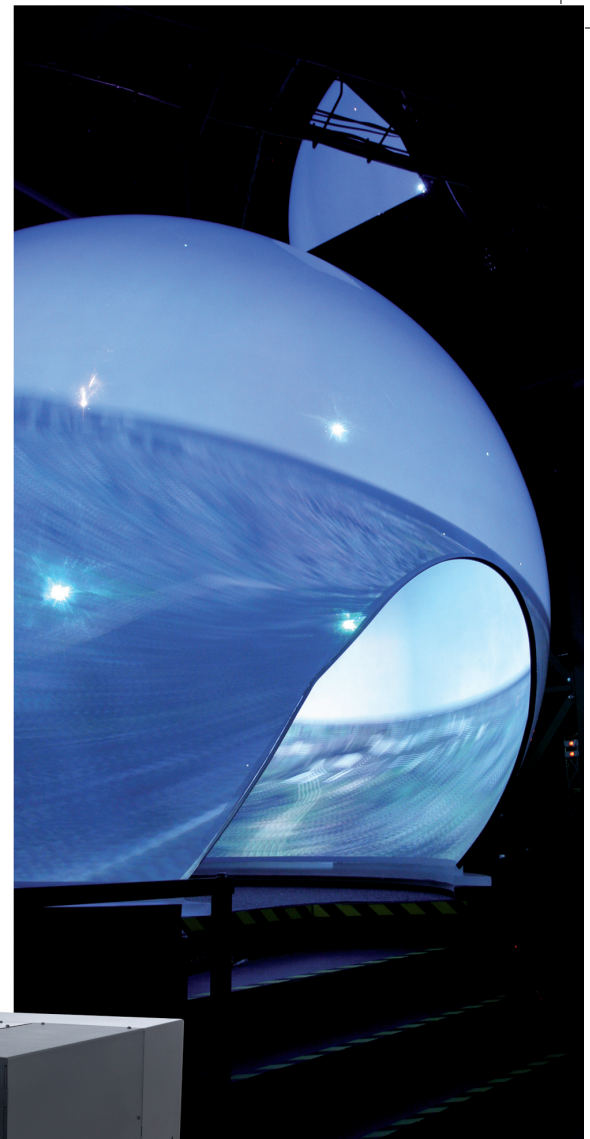
Barco's SIM 10 allows you to build high-performance simulators with significantly fewer projectors. It comes with 3-LCoS (liquid crystal on silicon) chips of Generation 2011 that have improved display performance and a significantly increased lifetime.

Passing with flying colors

Barco's SIM 10 was designed specifically for training and simulation systems. When you use several projectors to create one image, it automatically equalizes color and brightness levels across the image – even when projectors or lamps are replaced. In this way, you have the same smooth image, free of disturbances, all the time.

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Not alone in the dark

With a dynamic contrast ratio that can reach up to 10 million to 1 as well as an increased infra-red spectrum, the SIM 10 projector is ideal for simulated night and dusk training. It is completely compatible with all types night vision goggles, and produces realistic halo and blooming effects. This makes Barco's SIM 10 the best choice for all sorts of training needs for pilots - both day and night.

The right curves

Many simulation environments use curved screens to more accurately render the feeling of being in a cockpit. The SIM 10 carries warping technology on board, which results in a geometrically correct image across any type of curved surface, without the need for separate third-party devices.

Compatible with any type of simulator

Barco's SIM 10 can be made motion-base compatible, and can be deployed in flat faceted displays, collimated displays as well as front- and rear-projected curved screen displays. Due to its brightness, it is also the perfect choice for upgrades to large domes, or an increase of FtL in compact systems, which eliminates the need for a reading light.



	SIM 10
Resolution	10 million pixels (4096x2400)
Brightness	up to 6,000 lumens
Contrast ratio	dynamic contrast up to 10,000,000:1
Smearing reduction	50% and 33% options
Geometry correction	full 10 million pixels generation 3 warp

M00413-R02-1210-DS

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The standard product warranty is 1 year.

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Galaxy NW series

WUXGA, network-centric, three-chip DLP, 3D stereo projectors



Barco's Galaxy NW series consists of the NW-7 and NW-12 active 3D stereo projectors with full WUXGA (1920x1200) resolution. The outstanding image quality, thanks to the three-chip DLP technology and a bright 12,000 lumens (Galaxy NW-12) or 7,000 lumens (Galaxy NW-7) light output, is matched only by their ease of use and flexibility: in a familiar Windows desktop, you can display any mix of 2D and 3D stereo sources. The Galaxy NW series is the definitive choice for any collaborative single- or multi-projector display setup. The projectors render your display system more stable, more durable and above all, offer superior image quality.

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Pixel-perfect image quality

Thanks to the three-chip DLP technology, Barco's Galaxy NW series can claim deep, saturated color quality and a high degree of image realism. **WUXGA** resolution also gives you the chance to view all aspects of your information sources in great detail. In addition, WUXGA resolution is fully compatible with high-end laptops, or allows HD videoconferencing to run unobstructed by tickers, subtitles or your Windows task bar.

The Galaxy NW series' wide horizontal and vertical lens shift options further render it a perfect choice for both front and rear projection. The projectors' built-in geometry correction and blending feature are vastly superior to those of regular three-chip DLP systems, and help resulting in an **exceptional image quality**.

The NW-series can run in active stereo mode, using only one projector to generate both a left and right image simultaneous while retaining exceedingly high levels of color quality. By requiring only one projector per channel, a visualization system can attain a better cost-efficiency.

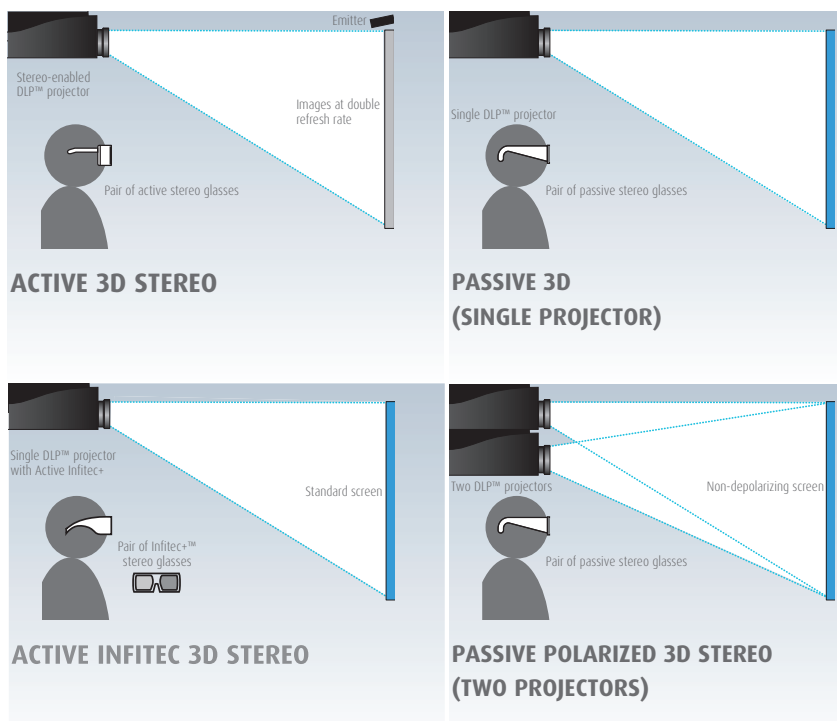
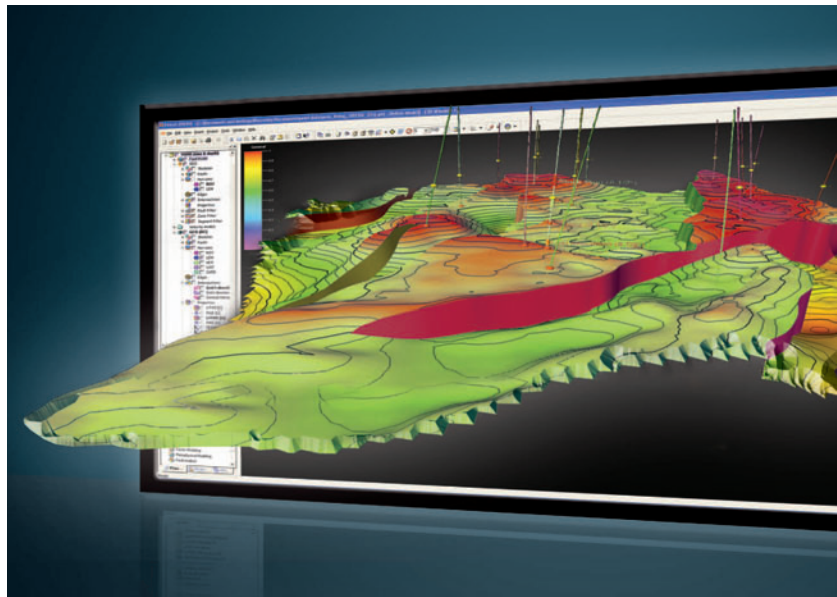
New in this projector range is the single-projector passive stereo support. The passive to active conversion of the NW-series merges two DVI input signals into a single active output, supporting both Infitec stereo glasses and active shutter glasses.

The NW series has integrated optional **active Infitec** filters. This Barco-patented stereo technology has uncompromised image quality, regardless of the type of screen you use. In addition, active Infitec makes use of considerably more affordable passive glasses.

The NW series also supports passive **polarized** stereo, if your visualization center is to be used by large groups. Passive stereo setups, where two projectors generate one stereo image, also retain high levels of brightness, which is ideal for larger rooms.

Mastery of 3D stereo imaging

The Galaxy NW series' three-chip DLP platform is our customers' preferred platform for stereoscopic projection. The exact 3D rendering that Barco's Galaxy NW series offers is vital to applications such as **automotive design** review, analysis of large **geophysical** data sets, **scientific research** and many others. The Galaxy NW series supports any current type of stereoscopic technology, depending on the customer's wishes:



Reducing your total cost of ownership

The price of a projection system is more than just its purchase: servicing, maintenance, peripherals and learning curves should also be taken into account, and often add up to a much higher cost. Barco's Galaxy NW series greatly reduces the total cost of ownership on many levels:

- **You save time**, because you don't need to learn how to work with a new interface and connect various sources over and over again. You simply use Windows and the XDS Control Center software.



- **Reduce maintenance costs.** Your projection system is practically maintenance-free due to its sealed optical engine, and its centralized control and maintenance functionalities eliminate many manual check-up routines.

- **You save money**, because you don't need to buy remote controls or matrix switchers. Instead, you use keyboard and mouse, and display sources simultaneously on one screen, in fully reconfigurable windows.

- **Improved reliability.** Thanks to its liquid cooling and its top-of-the-line xenon lamp, the Galaxy NW series boasts a significantly longer system lifetime compared to other three-chip DLP systems.

Net TCO of a Barco system

Single-projector setup		Multi-projector setup	
		Maintenance	
Maintenance		learning curve	Maintenance
learning curve	Maintenance		learning curve
	learning curve		
Integration	Integration	Integration	Integration
Projector purchase	Projector purchase	Projector purchase	Projector purchase
Traditional system	Barco system	Traditional system	Barco system



Applications

- Geophysical data analysis
- Avionic and automotive design and review
- Scientific research and data management
- Virtual construction and engineering



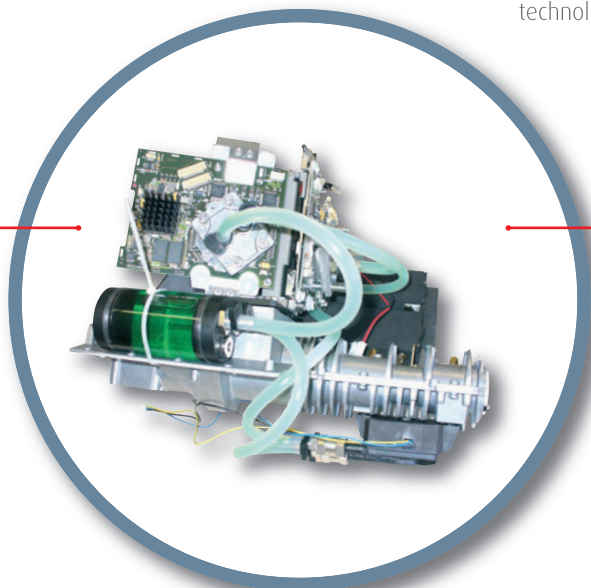
Designed for multi-projector systems



Barco's Galaxy NW series works just as smoothly in a single-projector setup as well as in a multi-projector system, in front as well as rear projection. Your systems will always have the **same look and feel**, thanks to Barco's XDS Control Center software, that lets you control several sources simultaneously in a familiar Windows user interface.

Combined with our own variety of **screen technologies** and **mechanical structures**, there is no type of system, whether flat or curved-screen, that the Galaxy NW series can't handle. To guarantee a pristine image at all times, Barco has equipped the Galaxy NW series with a number of innovative technologies:

- **Edge blending** technology creates one continuous image across the entire screen, without blurry overlap zones. Thanks to Barco's new **alpha and beta plane technology**, electronic blend zones will be close to invisible. In addition, Barco is the only company that has mastered perfect optical blending.
- **DynaColor** and **linked CLO** (constant light output) match color or brightness differences across channels to create one constant color and light output for the entire image. A unique advantage of Barco's **new and improved** DynaColor is that it uses alignment points for **both** primary and secondary colors, which puts it in pole position among comparable technologies.
- **Bi-cubical warping** (geometry correction) ensures that an image is projected correctly, with an extremely high level of accuracy (up to 33 by 33 control points), even across curved, non-flat surfaces, to guarantee a natural view free of distortions.



Revolutionary design

The aesthetically designed Galaxy NW series uses a chassis designed to attain some of the **lowest noise levels in its class**, averaging well under 49dB. The **liquid-cooled** optical engine's reliability is further increased by being **fully sealed**, which means no dust can enter and cause degradation in contrast and black levels. Your image quality also remains stable over time, thanks to the NW series' rock solid lens holder. This grants the Galaxy NW series a system lifetime that is substantially longer than that of similar three-chip DLP systems, a platform already noted for its great reliability.

The bottom line

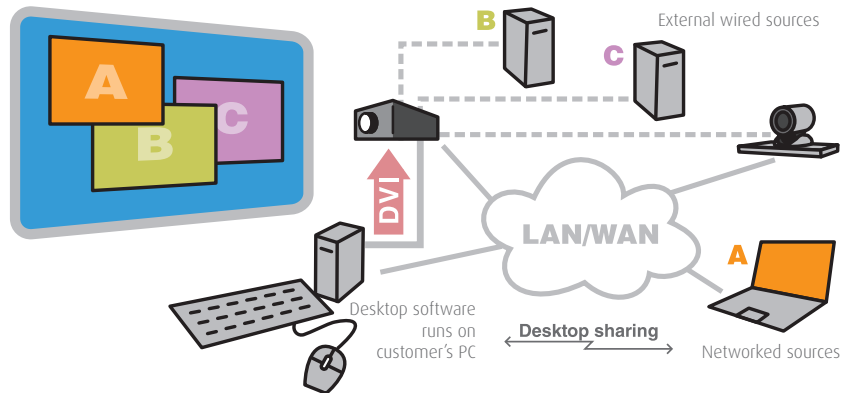
The Galaxy NW series' unique combination of liquid cooling, mechanical stability and improved multi-channel features lead to a very stable, reliable multi-projector display system unrivaled in the industry.

Efficient collaboration, faster decision-making

Whether you are in the oil and gas sector, the automotive industry, virtual engineering of scientific research, Barco's Galaxy NW series will render your collaborative efforts faster and more efficient, leading to improved decision-making, thanks to the XDS Control Center software suite. Barco's XDS Control Center runs from your dedicated company computer that is connected to the projector, and requires **no additional display management systems in case you use a single- or a two-projector setup.**

Familiar Windows interface

On a large-screen Windows desktop, you can **simultaneously view and control** any mix of 2D and 3D stereo sources. With just mouse and keyboard, you can select a source, move it, resize its application window or make it overlap with another source. This includes sources directly connected to the Galaxy NW projector as well as networked content and remote desktops.



Real-time distance collaboration

With the Galaxy NW series, you can't just display any local or networked source, you can **directly take control** of it as well – all with the same mouse and keyboard. You can combine your sources with live video feeds or **HD videoconferencing**, so that you can strongly reduce travel costs, or work in a slow turn-based environment. Your content will not only be visible and shared between locations, it will also be encrypted and **safeguarded** against eavesdropping.

Centralized control and diagnostics

The Galaxy NW series presents a great asset for your tech support staff, as it allows easy, centralized control and diagnostics over the network, including **remote startup and shutdown**. The Galaxy NW series enables your staff to check the projector's runtime, its lamp lifetime and the status of connected sources. It also sends **automated e-mail alerts** to your AV/IT-personnel in case of lamp problems.



Galaxy NW series technical specifications

Display capabilities	Light output	12,000 lumens(NW-12) ; 7,000 lumens (NW-7)	
	Contrast	up to 2,000:1	
	Resolution	WUXGA (1,920x1,200)	
	Chip technology	Sealed and liquid cooled three-chip DLP	
	Lamps	Lamp	2 kW Xenon (NW-12); 1.5 kW Xenon (NW-7)
		Lamp warranty	750 hrs warranted, max. 1,000 hrs (NW-12) 1,000 hrs warranted (NW-7)
Weight		70 kg (154.2 lbs) net - 85 kg (187.4 lbs) shipping weight	
Dimensions	Height - width - length	345 / 590 / 913 mm 13.58" / 23.22" / 35.94"	
	Available zoom lenses		
Lenses	TLD+ (1.5-2.0:1)	R9862010	
	TLD+ (2.0-2.8:1)	R9862020	
	TLD+ (2.8-4.5:1)	R9862030	
	TLD+ (4.5-7.5:1)	R9862040	
	Available fixed focal lenses		
	TLD+ (0.73:1)	R9862000	
	TLD+ (1.2:1)	R9840775	
Features	Lens shift range		
		Horizontal shift up to +/- 65% Vertical shift up to +/- 110%	
	Special features		
		Standard active and polarized stereo, optional passive or active Infitec Source and PiP operation through Windows OS Standard full geometry correction Sealed, liquid-cooled engine Multi-channel features	

Inputs and outputs	Standard inputs		
		Twin dual link DVI 3 stereo sync inputs (mini-DIN)	
	Optional inputs (2 free layers)		
		QXGA RGBHV input DVI/D15 input (HDCP) Extra twin dual link DVI	
	Communication ports		
		RS232 (on D9) 10/100 Mb/s Ethernet (on RJ45)	
Compatibility	Data		
		Analog sources with a pixel clock of up to 270 MHz DVI sources with a pixel clock of up to 300 MHz	
Safety	Safety standards		
		ETL60950 and EN60950 CE compliant CCC compliant	
	AC power		
Power		200 - 240 VAC/50-60 Hz	
	Max. power consumption / dissipation		
Order info		2,800 Watt / 9,560 BTU	
		Galaxy NW-7	R9040406
		Galaxy NW-12	R9040411
		New 1.5 kW lamp	R9843085
		New 2kW lamp	R9843087
		Refurbished lamp NW-7	R9843095
		Refurbished lamp NW-12	R9843097
	QXGA RGBHV input	R9843020	
	DVI/D15 input (HDCP)	R9843045	
	Twin dual DVI	R9843041	

M00147-R02-0212-PB



DLP™ technology by Texas Instruments offers crystal clear images with superior quality. DLP is a trademark of Texas Instruments.

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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Avionics & Simulation Division
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CD series

Cross-cockpit collimated display system



Barco's cross-cockpit collimated display system is a fully integrated, optimized simulator for accurate **side-by-side cockpit training**. The CD series combine Barco's expertise in projection, mechanical structures, screens and display alignment to form one comprehensive solution from the same manufacturer. This means you only need **one address** to turn to for design, installation and service. It offers the following key features:

- 220° x 45° field of view
- most accurate geometry correction
- exceeds Level D and ICAO 9625 Ed.3 standards
- motion-base compatibility
- choice between three- or five-projector setup
- automated alignment tools

With an extensive experience of **over 25 years** in the training and simulation market, Barco has the right know-how in the design, manufacture and installation of complex display systems. Barco is the major key **independent visualization provider** in simulation, and its long track record of business relationship with big companies in the industry easily speaks for itself.

BARCO

Visibly yours

CD series

Superior system performance

Since Barco manufactures all the components of this display, including the optical system and projectors, Barco can **guarantee the total system performance**. The CD series offer the highest resolution and highest brightness images available, and **exceed the new ICAO 9625 Ed. 3** performance standard. Barco's polyester film mirror has the best optical performance and is the heart of the display.

Superior image quality

The CD series come with Barco's advanced **liquid crystal on silicon (LCoS)** projection technology that is FAA Level-D certified. The purpose-designed Barco projectors feature technology that strongly **reduces smearing** of fast-moving images so that pilots can detect, recognize and identify objects much faster. With Barco's unique constant contrast dimming, extended contrast ratio and improved infrared features, your image's dynamic contrast can become over **2,000,000:1**. And with black levels on par with CRT standards, this creates the ideal circumstance for **night training**.

World-wide presence and service

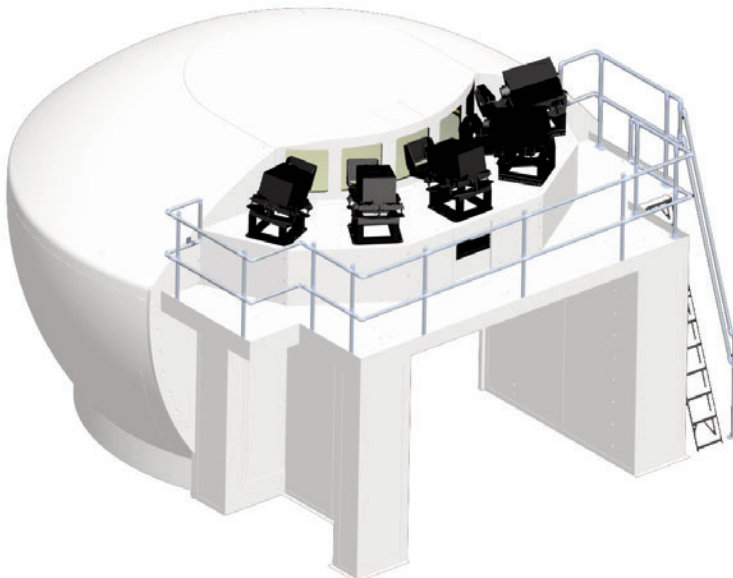
Barco's worldwide presence and long-term involvement with the training and simulation market ensures we can implement the collimated display globally, with our local teams and partners. Our after-sales care is not an after-thought, but a full commitment to **increasing system uptime**. Barco works with you on a tailor-made maintenance program to help you achieve the performance you target. In addition, we employ service desks that can help you in your native language, and offer service agreements tuned to your needs.



- smear-free operation
- flawless edge blending
- color and brightness uniformity
- superb geometry correction



- 220° x 45° field of view
- up 25° and down 20° / up 22.5° and down 22.5° shifts
- light-weight 10 feet radius film mirror



- light-weight 10 feet radius film mirror
- AFT structure option

M00321-R01-0210-DS

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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Or mail to contact.bps@barco.com

BARCO

Visibly yours

Control room video walls

Product catalog



Barco:
global **leader**
in professional
visualization
solutions

Monitoring
50% of the
world's
electricity
transport

Helping **over**
2.5 billion
commuters
get home
safely every
day

Supporting security management in **more than 100** metropolitan centers

Helping over **300 million** people keep in touch

2 billion people watch Barco every day

The most complete portfolio
for control room visualization



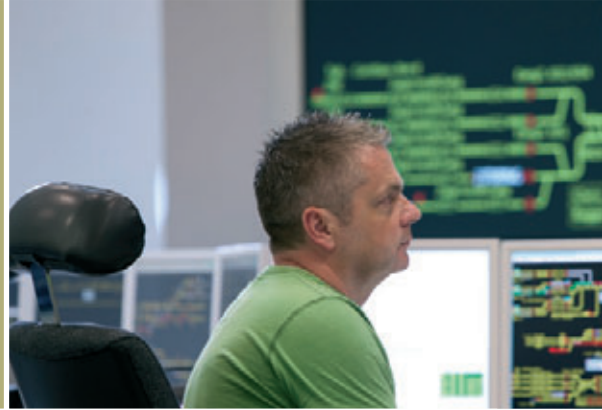


Emergency operation centers, power plants, traffic management centers and other control rooms are all about monitoring business-critical or even life-critical operations, 24 hours a day, 365 days per year. These nerve centers are one of the most demanding environments, with operators relying on dependable visualization, often in a networked setup, for their decision making.

Building on a wide expertise and long history in control room visualization, Barco's extensive portfolio of video wall products features LED and LCD display cubes for video walls, personal video walls, networked and network-ready controllers and wall management software.

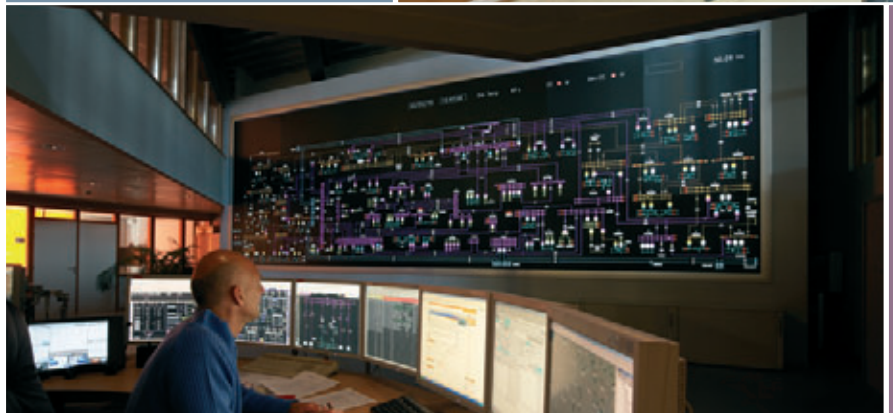
Rear-projected
video walls

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Complementary
services

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LCD
video walls

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Technical
specifications

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Rear-projected video walls

LED video walls

OL series	OL-510	12
	OL-521	12
	OL-710	12
	OL-721	12
OLF series	OLF-510	14
	OLF-521	14
	OLF-710	14
	OLF-721	14
OLS(F) series	OLS-521	16
	OLS-721	16
	OLSF-521	16
	OLSF-721	16

OVL series	OVL-508	18
	OVL-515	18
	OVL-708	18
	OVL-715	18
	OVL-808	18

Lamp video walls

OV-D2 series	OV-508	20
	OV-513	20
	OV-515	20
	OV-708	20
	OV-713	20
	OV-715	20
	OV-808	20
	OV-815	20
	OV-1008	20
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LCD video walls

Narrow bezel LCD video walls

NSL series	NSL-4601	24
	NSL-5521	24

Personal video walls

Wide screen LCD displays

LDX series	LDX-46	26
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Complementary services

Alternative screens	30
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Technical specifications

LED video walls	OL(F) series	34
	OLS series	36
	OVL series	38
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Lamp video walls	OV-D2 series	40
LCD video walls	NSL series	42
Personal video walls	LDX series	43
Comparative table		44

Video walls

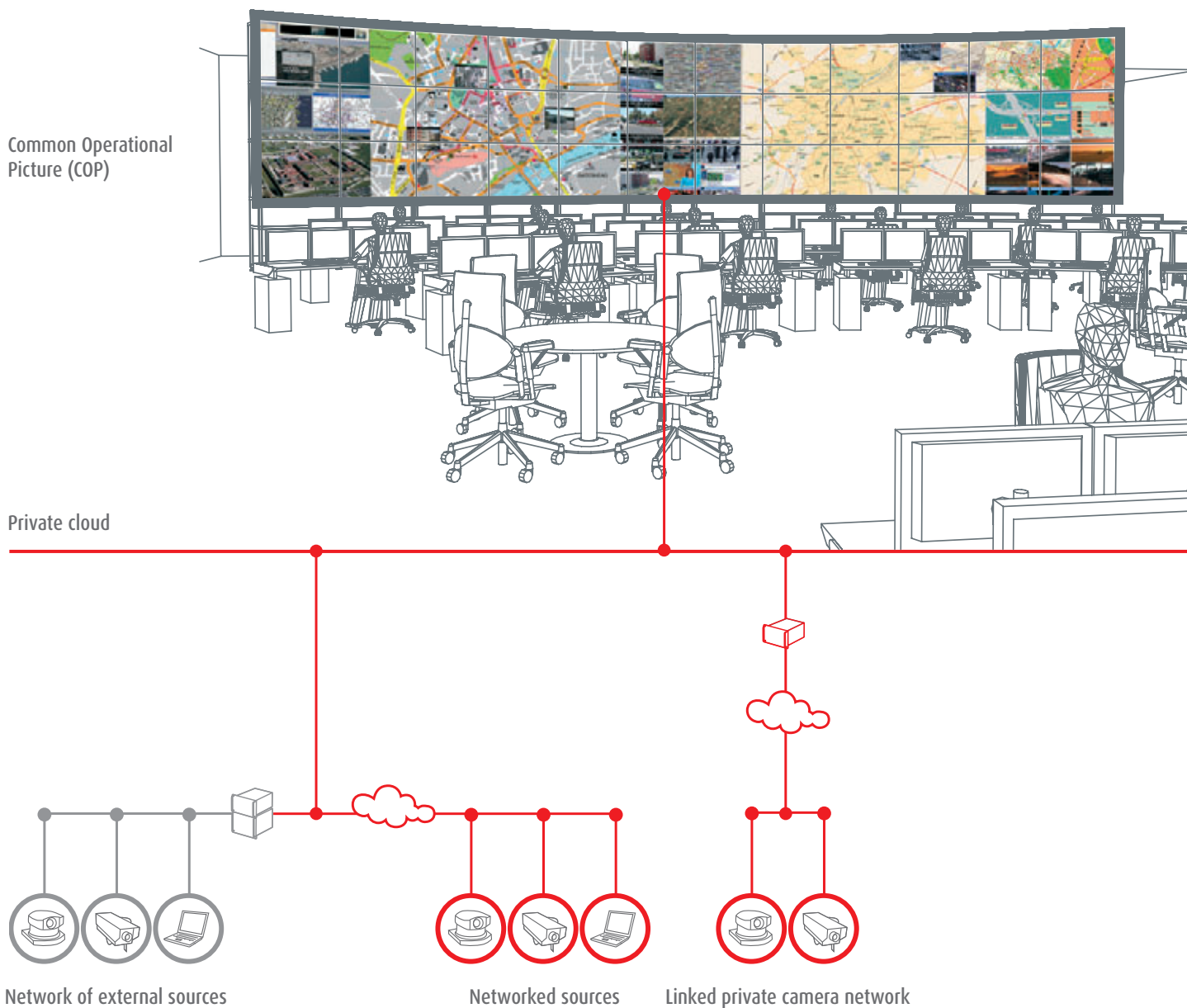
LCD video walls

Complementary services

Specifications

Scalable, networked & future-proof solutions

Barco's portfolio for the control rooms market consists of visualization equipment, controllers and software. By bringing these components together in total concepts, users discover the true power of our products. The result: easier information sharing, faster communication, and optimal performance of the control rooms.



Networked visualization

Barco's networked visualization solution is the most versatile control room management system on the market today. It allows the safe and easy distribution of any data or video source over the standard IP network, between multiple rooms and even multiple locations around the world. This innovative system takes data from an unlimited number of inputs, distributes it over an unlimited distance and displays on an unlimited number of visualization equipment, to offer an unmatched level of flexibility and expandability. Our system even supports the secure distribution of information over different private clouds, for example to share content between various public services.

Crisis room



3D Stereo wall



Backup room



Boardroom



Workstations



Personal walls



Shared personal wall



REAR-PROJECTION VIDEO WALLS

Available in a very large variety of screen sizes and formats, Barco's LED-lit and lamp-lit rear-projection video walls suit all medium to large sized control rooms. The availability of upgrade kits guarantees that your investment is safe across technical updates and that the lifetime of your visualization system is extended.

LED video walls

OL series

OLF series

OLS(F) series

OVL series

Lamp video walls

OV-D2 series

16:9 LED video walls: OL series

50" and 70" LED rear-projection cubes

Barco's OL LED projection module has been awarded with the red dot quality label for its outstanding design, offering an ergonomically excellent viewing experience, with the sharpest and most saturated colors in WXGA or full HD resolution.

The OL video wall has been designed for an entirely maintenance-free operation over several years, without any need for consumables. The OL comes with Sense⁶, a unique sensor technology that automatically provides brightness and color stability over time and across the entire display. Sense⁶ continuously measures brightness and color and adjusts the color space to provide an image that is most convenient for the human eye.

Thanks to the small depth of the projection module the OL display cube can easily be installed in small rooms. The rugged design also makes these video walls suited for industrial environments.



Key characteristics

- > 3rd generation LEDs for unmatched brightness & minimal power consumption
- > Sense⁶ technology for brightness and color stability
- > Liquid cooling ensures longer LED lifetime
- > Extremely silent
- > No mercury or other toxic materials used
- > Less disposables, less waste
- > Lightweight for easier transport and installation
- > Recyclable
- > Rugged design, suited for industrial environments

	OL-510	OL-521	OL-710	OL-721
Resolution	WXGA	Full HD	WXGA	Full HD
Pixels	1368 x 768	1920 x 1080	1368 x 768	1920 x 1080
Diagonal inch	50	50	70	70
Aspect ratio	16:9	16:9	16:9	16:9
Access mode	back	back	back	back
Dimensions (W x H x D) mm	1,088 x 612 x 454	1,088 x 612 x 454	1,550 x 872 x 622	1,550 x 872 x 622
Dimensions (W x H x D) inch	42.8 x 24.1 x 17.9	42.8 x 24.1 x 17.9	61.x 34.3 x 24.5	61. x 34.3 x 24.5
Weight kg	44	44	61	61
Weight lbs	97	97	146	146

OL-510



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OL-521



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OL-710



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

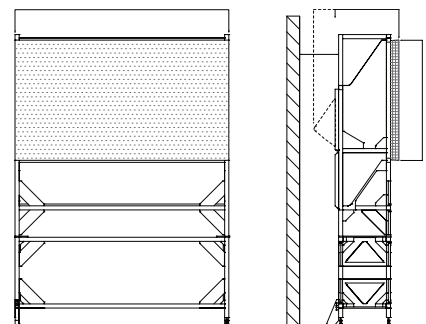
OL-721



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out



Alternative screen types available



16:9 LED video walls with front access: OLF series

Front accessible 50" and 70" LED rear-projection cubes

Barco's OLF LED projection module offers an ergonomically excellent viewing experience, with the sharpest and most saturated colors in WXGA resolution or full HD resolution.

Additionally, this series offers front accessibility, which eliminates the need for a rear maintenance area and drastically limits the space needed in the control room. Added to the already thin design of the OLF series, these video wall cubes can really claim the smallest footprint.

The OLF video wall has been designed for an entirely maintenance-free operation over several years, without any need for consumables. The series comes with Sense⁶, a unique sensor technology that automatically provides brightness and color stability over time and across the entire display. Sense⁶ continuously measures brightness and color and adjusts the color space to provide an image that is most convenient for the human eye.



Key characteristics

- > 3rd generation LEDs for unmatched brightness & minimal power consumption
- > Sense⁶ technology for brightness and color stability
- > Front accessibility eliminates the need for rear maintenance area
- > Liquid cooling ensures longer LED lifetime
- > Extremely silent
- > No mercury or other toxic materials used
- > Less disposables, less waste
- > Lightweight for easier transport and installation
- > Recyclable
- > Rugged design, suited for industrial environments
- > Brightest cube in class

	OLF-510	OLF-521	OLF-710	OLF-721
Resolution	WXGA	Full HD	WXGA	Full HD
Pixels	1368 x 768	1920 x 1080	1368 x 768	1920 x 1080
Diagonal inch	50	50	70	70
Aspect ratio	16:9	16:9	16:9	16:9
Access mode	front and back	front and back	front and back	front and back
Dimensions (W x H x D) mm	1,088 x 612 x 454	1,088 x 612 x 454	1,550 x 872 x 622	1,550 x 872 x 622
Dimensions (W x H x D) inch	42.8 x 24.1 x 17.9	42.8 x 24.1 x 17.9	61.1 x 34.3 x 24.5	61.1 x 34.3 x 24.5
Weight kg	53	53	74	74
Weight lbs	117	117	163	163

OLF-510



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OLF-521



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OLF-710



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

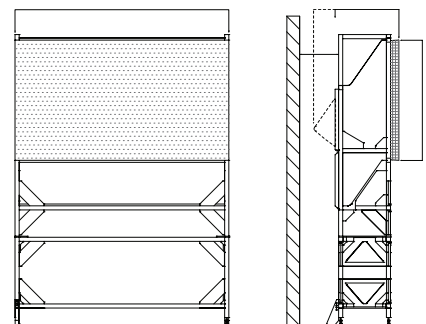
OLF-721



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out



Alternative screen types available



16:9 LED video walls with 3D-stereo: OLS series

Stereoscopic 50" and 70" LED rear-projection series

Barco's extensive expertise in 3D visualization solutions has led to the design of the OLS LED video walls. This series brings vivid stereoscopy to control rooms, contributing to the increasing deployment of 3D content.

OLS projection modules also offer an ergonomically excellent viewing experience, with the sharpest and most saturated colors in full HD resolution. Furthermore, the series has been designed for an entirely maintenance-free operation over several years, without the need for consumables.

The OLS comes with Sense⁶, a unique sensor technology that automatically provides brightness and color stability over time and across the entire display. Sense⁶ continuously measures brightness and color and adjusts the color space to provide an image (2D or 3D) that is most convenient for the human eye.



Key characteristics

- > 3rd generation LEDs for unmatched brightness & minimal power consumption
- > 3D stereo using active shutter glasses
- > Low total cost of ownership
- > Liquid cooling ensures longer LED lifetime
- > Vivid LED colors
- > Sense⁶ technology for brightness and color stability
- > Can be arranged in any shape and size
- > Cost-effective
- > Cubes can be combined to create high wall resolutions
- > Optional front accessibility

	OLS-521	OLS-721	OLSF-521	OLSF-721
Resolution	Full HD	Full HD	Full HD	Full HD
Pixels	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Diagonal inch	50	70	50	70
Aspect ratio	16:9	16:9	16:9	16:9
Access mode	back	back	front and back	front and back
Dimensions (W x H x D) mm	1,088 x 612 x 454	1,550 x 872 x 622	1,088 x 612 x 454	1,550 x 872 x 622
Dimensions (W x H x D) inch	42.8 x 24.1 x 17.9	61 x 34.3 x 24.5	42.8 x 24.1 x 17.9	61 x 34.3 x 24.5
Weight kg	44	63	53	73
Weight lbs	97	139	117	161

OLS-521



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OLS-721



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OLSF-521

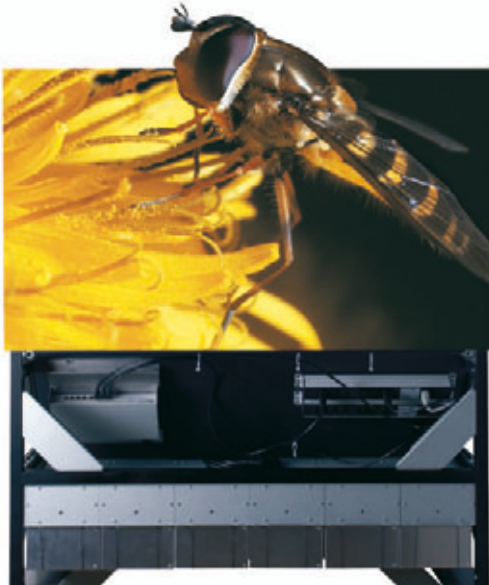


Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

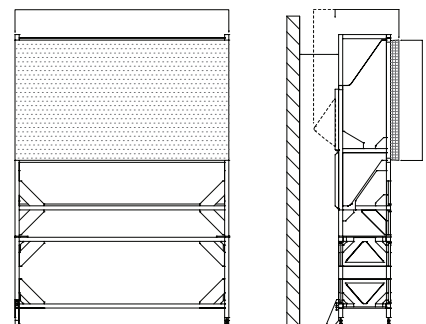
OLSF-721



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out



Alternative screen types available



4:3 LED video walls: OVL series

50", 70" and 80" LED rear-projection cubes

Barco's OVL LED projection system is equipped with a liquid cooling system, lifting the LED illumination to a new level of brightness. This projection module offers an ergonomically excellent viewing experience, with the brightest and most saturated colors in XGA or SXGA* resolution.

The OVL video walls have been designed for an entirely maintenance-free operation over several years, without any need for consumables. Furthermore, the OVL series comes with Sense⁶, a unique auto-calibration technology that provides brightness and color stability over time and across the entire display. This means that no maintenance or manual adjustments are needed.

Thanks to the modular design of the OVL-projection engine, the OVL projector can also be used to upgrade existing Barco rear-projection modules of the Overview D series.



Key characteristics

- > 3rd generation LEDs for unmatched brightness & minimal power consumption
- > Sense⁶ technology for brightness and color stability
- > Liquid cooling ensures longer LED lifetime
- > Extremely silent
- > No mercury or other toxic materials used
- > Less disposables, less waste
- > Maintenance-free
- > Rugged design, suited for industrial environments

	OVL-508	OVL-515	OVL-708	OVL-715
Resolution	XGA	SXGA*	XGA	SXGA*
Pixels	1024 x 768	1400 x 1050	1024 x 768	1400 x 1050
Diagonal inch	50	50	70	70
Aspect ratio	4:3	4:3	4:3	4:3
Access mode	back	back	back	back
Dimensions (W x H x D) mm	1,000 x 750 x 734	1,000 x 750 x 734	1,400 x 1,050 x 899	1,400 x 1,050 x 899
Dimensions (W x H x D) inch	39.4 x 29.52 x 28.9	39.4 x 29.52 x 28.9	55.1 x 41.2 x 35.4	55.1 x 41.2 x 35.4
Weight kg	65	65	101.5	101.5
Weight lbs	143	143	224	224

OVL-X08



Input/Output: 2x Dual link DVI in / 2x Dual link DVI out

OVL-X15

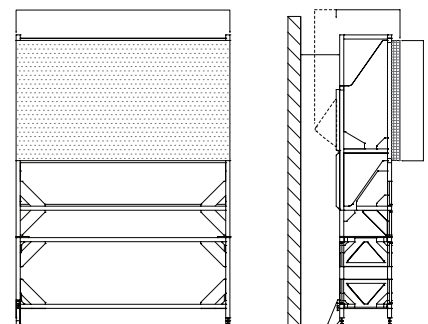


Input/Output: 2x Dual link DVI in / 2x Dual link DVI out



Alternative screen types available

OVL-808	OVL-815
XGA	SXGA+
1024 x 768	1400 x 1050
80	80
4:3	4:3
back	back
1,600 x 1,200 x 1,023	1,600 x 1,200 x 1,023
63 x 47.2 x 40.3	63 x 47.2 x 40.3
131.3	131.3
289	289



Lamp video walls: OV-D2 series

50", 70", 80" and 100" rear-projection cubes

Barco's OV-D2 series are designed and optimized for use in a 24/7 mission critical environment. The Barco designed projection engine provides a set of unique features, resulting in outstanding picture quality, reliability and ease of use.

The 50" and 70" versions are available in XGA, SXGA and SXGA+ resolutions. The high brightness and number of pixels per inch make them ideal for usage in broadcast applications, or to display video and detailed content. The 80" and 100" models, available in XGA and SXGA+ resolution, provide Barco-quality pictures for a minimal cost per square meter.



Key characteristics

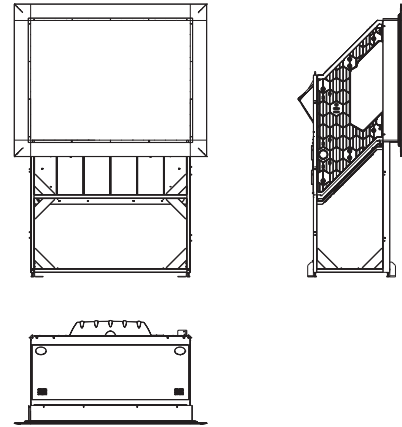
- > High contrast DLP technology optimizes picture quality
- > Brightness, contrast and viewing angles tailored to human eye
- > Vibrant colors
- > Sense⁶ technology for brightness and color stability
- > Ultimate reliability
- > Fast Ethernet communication
- > Projection modules integrated into single display

	OV-508	OV-513	OV-515	OV-708
Resolution	XGA	SXGA	SXGA+	XGA
Pixels	1024 x 768	1280 x 1024	1400 x 1050	1024 x 768
Diagonal inch	50	50	50	70
Aspect ratio	4:3	5:4	4:3	4:3
Access mode	back	back	back	back
Dimensions (W x H x D) mm	1,000 x 750 x 734	1,000 x 800 x 715	1,000 x 750 x 734	1,400 x 1,050 x 899
Dimensions (W x H x D) inch	39.4 x 29.5 x 28.9	39.4 x 31.5 x 28.1	39.4 x 29.5 x 28.9	55.1 x 41.3 x 35.4
Weight kg	65	68.5	65	101.5
Weight lbs	143	151	143	224

OV-D2 series



Input/Output: 1 x DVI-D in/out, 1 x Dual-link DVI-D in/out



Alternative screen types and lamps available

OV-713	OV-715	OV-808	OV-815	OV-1008	OV-1015
SXGA	SXGA*	XGA	SXGA*	XGA	SXGA*
1280 x 1024	1400 x 1050	1024 x 768	1400 x 1050	1024 x 768	1400 x 1050
70	70	80	80	100	100
5:4	4:3	4:3	4:3	4:3	4:3
back	back	back	back	back	back
1,400 x 1,120 x 973	1,400 x 1,050 x 899	1,600 x 1,200 x 1,023	1,600 x 1,200 x 1,023	2,032 x 1,524 x 1,400	2,032 x 1,524 x 1,400
55.1 x 44.1 x 38.3	55.1 x 41.3 x 35.4	63 x 47.2 x 40.3	63 x 47.2 x 40.3	80 x 60.2 x 55.1	80 x 60.2 x 55.1
108.5	101.5	131.3	131.3	273.5	273.5
239	224	289	289	602	602



LCD VIDEO WALL SOLUTIONS

Specifically designed for small and medium-sized control rooms, Barco's LCD displays produce sharp, high-quality images for demanding applications. Combining the typical benefits of LCD technology – low maintenance, thin design, wide viewing angle, ... - with Barco's knowhow in professional visualization, these display solutions are the best choice for any control room.

LCD video walls

NSL series

Personal video walls

LDX series

LCD video walls: NSL series

46" and 55" narrow-bezel LCD for control rooms

Barco's NSL-5521, a 55" full HD LCD with LED backlights, combines high brightness and a durable LED backlight technology with an extremely narrow bezel for excellent tiled visual performance.

The Barco NSL-4601 is a professional grade, narrow-bezel 46" LCD display with WXGA resolution, which has been designed for tiled video wall applications in small to medium-sized control rooms.

As a tiled LCD solution, the NSL series is ideal for personal wall environments and adjunct control rooms in Emergency Operations Centers, traffic management and surveillance centers, C4I-SR environments, utilities & process control centers and broadcast & telecom monitoring applications.



Key characteristics

- > High resolution
- > Cooling system separating hot and cold air
- > Anti image retention circuitry
- > Minimal seam for optimal tiled visual performance
- > Multiple sources (video, PC content or streaming video)
- > Scaled or native resolutions
- > Stable colors thanks to display consistency management software
- > Front and rear accessibility

	NSL-4601	NSL-5521
Backlight	CCFL lamps	Direct LED
Resolution	WXGA	Full HD
Pixels	1366 x 768	1920 x 1080
Diagonal	inch 46	55
Aspect ratio	16:9	16:9
Access mode	front and back	front and back
Dimensions (W x H x D)	mm 1,026 x 580 x 98	1,215 x 686 x 98
Dimensions (W x H x D)	inch 40.4 x 22.8 x 3.9	47.8 x 27 x 3.9
Weight	kg 29.8	35
Weight	lbs 65.7	77.3

NSL-4601



Input/Output: DSub-15P in/out, DVI-D in/out, BNC in/out, S-video in/out

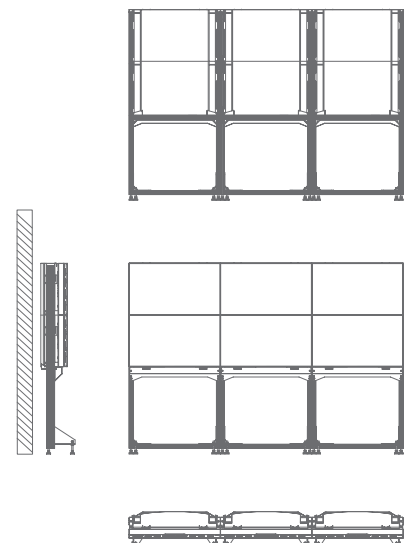
NSL-5521



Input/Output: DSub-15P in/out, DVI-D in/out, BNC in/out, S-video in/out



Floor- and wall mount solution available with heat management to avoid accumulation of heat at the higher rows



Personal video walls: LDX series

46" and 55" wide screen LCD displays

Barco's LDX series display with LED backlights has been designed for use in a wide variety of professional applications. The LDX produces crisp, bright and color-accurate images on a 46" or 55" screen.

Featuring LED backlit LCD technology, the LDX boasts a high brightness and wide color gamut and provides an exceptionally thin and space-saving design. Available in native full high definition (1920 x 1080 pixels), the LDX is a high-quality display that can be deployed in a wide variety of markets.

Barco's LDX combines the typical benefits of liquid crystal technology (such as low maintenance costs) with energy-efficient LED backlights, reducing image burn-in and colorations, which makes it perfectly suited for long-term usage.



Key characteristics

- > Anti Image Retention circuitry
- > Wide viewing angle
- > High brightness for use in all conditions
- > High contrast, even in high ambient light environments
- > High resolution and pixel density
- > Low power consumption

		LDX-46	LDX-55
Backlight		Edge LED	Edge LED
Resolution		Full HD	Full HD
Pixels		1920 x 1080	1920 x 1080
Diagonal	inch	46	55
Aspect ratio		16:9	16:9
Dimensions (WxHxD)	mm	1,075 x 639 x 85	1,267 x 749 x 81
Dimensions (WxHxD)	inch	42.3 x 25.2 x 3.3	49.9 x 29.5 x 3.2
Weight	kg	28	35
Weight	lbs	61.8	77.3

LDX-46



Standard inputs: DVI single link, display port, HDMI, VGA, 2xHDSi+3Gb/s, analog video (CVBS, S-Video, Component)

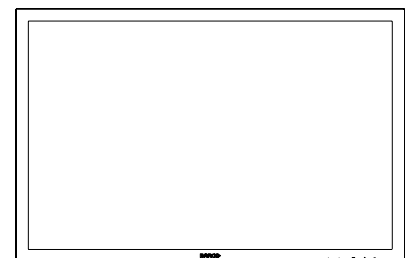
LDX-55



Standard inputs: DVI single link, display port, HDMI, VGA, 2xHDSi+3Gb/s, analog video (CVBS, S-Video, Component)



Easy wall or ceiling installation using integrated mounting interfaces according to VESA standards





COMPLEMENTARY SERVICES

Barco's complementary services help you choose, install and integrate the best possible visualization solution. You can rest assured that your system will always perform optimally and that you can upgrade critical components to follow new technologies like LED to extend your system's lifetime.

Alternative screens

Professional services

Touch screen

Sense⁶

Technology refresh program

Technology options

-
- > Screens available for OL series: HVA (BB), FXS (standard), High Gain
-
- > Screens available for OVL series: FXS (standard) and High Gain
-
- > Screens available for OV-D2 series: HVA (standard), HVM and HVX
-
- > Dedicated screens for high brightness or wide viewing angles
-
- > Stitched and modular screens
-

-
- > Control over menus, buttons and objects on the display wall
-
- > Write and save notes in software applications
-
- > High touch accuracy
-
- > Fast responsiveness
-
- > Scalability for large video walls
-

-
- > An extensive range of services, tailored to specific needs
-
- > Perfect control of costs
-
- > Pro-active maintenance and obsolescence management possibilities
-
- > Single point of contact
-
- > Training options available
-

High contrast, high brightness screens

When using rear-projection video walls, not only the projection engine is important, but also the screen used. The standard screens delivered with the Barco video wall cubes are aimed at offering high performance in all circumstances. However, for environments needing special requirements in terms of brightness, contrast, viewing angle and luminance, alternative screens can be selected.

Touch screen

With the Digital Vision Touch technology (DViT) from SMART Technologies, Barco's display wall solutions become truly interactive environments in which users can access and manipulate data on a large screen area. Barco's OVTS-50 Video Wall Touch System features SMART's high-precision touch screen technology enabling intuitive finger tip interaction on large-area display content. SMART's DViT technology is an add-on product for the OVL and OV-D2 series, integrated at the bottom of the screen. The OVTS-50 system delivers unmatched accuracy and responsiveness and ensures real-time interaction on Barco's 50-inch video wall cubes.

Professional services

Today's business-critical environments increasingly rely on visualization technology for monitoring and decision-making purposes. Due to the critical nature of the application, continuous availability and flexibility of these systems is a must. Barco's professional services, offered in cooperation with our reseller/integrator network, guide customers to choose the right technology, install and integrate their visualization solution and maintain the system following the industry standards.

Furthermore, these services allow to select value-added and custom-tailored options for small, medium and large-scale projects. Aided by this extensive range of professional services, customers get the most out of their investment, from the design phase through the entire project lifecycle.

Sense⁶

Sense⁶ brings wall uniformity to the next level. Not only does Sense⁶ increase color and brightness uniformity in the corners of each single projection module, Barco's innovative technology also keeps all projection modules equal over time and across the entire video wall.

By integrating a patented brightness and color sensor (for the lamp-based modules) or a spectrometer (LED-based), the video wall's color and brightness is continuously measured and communicated between projection modules. Sense⁶ automatically matches the brightness of full white, full black and all gray levels in between, as well as the colors of all display modules.

Thanks to Barco's remote management software, operators and system administrators can easily control and calibrate individual display cubes or a complete video wall. As such, displays and projectors in a control room become a centrally managed asset, guaranteeing maximum uptime.

-
- > Ultimate color stability
 - > Counteracts aging effects
 - > Uniform color spreading over all cubes
 - > No operator attention needed
-

Technology refresh program

To bring your control room visualization technology to the most recent high-quality standards, Barco offers an all-in-one technology refresh program for its legacy video wall systems.

Barco's video wall upgrade kit enables to upgrade lamp-based OV-D2, D1 and p-Si video walls to the latest LED-powered technology. In a cost-effective way, you benefit from the many advantages LED technology has to offer, including longer lifetime, reduced maintenance costs and lower energy consumption. Furthermore, the upgraded projection engine ensures an improved on-screen legibility, contrast and uniformity, better ergonomics for operators by optimized brightness levels, increased LED performance thanks to liquid cooling, and LED redundancy for a maximal operational efficiency.

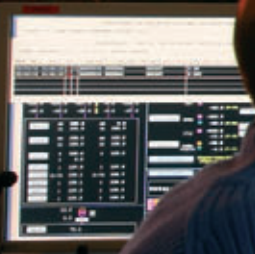
The video wall upgrade kit includes:

- New LED-based projection engine
- New illumination unit with input box and cooling unit
- New mounting brackets & sheet metal
- Technology assessment for video wall controller upgrade

-
- > Secure your Barco investment for the future
 - > Minimize system downtime during installation
 - > Eliminate the need for cabling and architectural works
 - > Benefit from new technology in the most cost-effective way
 - > Preserve previous configuration and calibration
 - > Ensure a smooth sustainable transition
-



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TECHNICAL SPECIFICATIONS

Technical specifications

OL(F) series

OLS(F) series

OVL series

OV-D2 series




NSL series

LDX series






16:9 LED video walls

OL(F) series

3rd generation LEDs

		OL-510	OL-521	OL-710
				
SPECIFICATIONS		WXGA resolution	Full HD resolution	WXGA resolution
Screen diagonal	inch	50	50	70
Resolution	pixel	1368 x 768	1920 x 1080	1368 x 768
Absolute resolution	dpi	32	45	22.5
Aspect ratio	1	16:9	16:9	16:9
Screen	type	FXS ¹	FXS ¹	FXS ¹
Brightness on screen	FXS, REC709 Cd/m ²	490	490	240
Contrast	dynamic	560,000:1	560,000:1	560,000:1
Max color gamut	% of EBU	165	165	165
White point	K	2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary
Color sequence	x frame rate	24	24	24
Color control	type	Sense ⁶	Sense ⁶	Sense ⁶
Internal color processing	bit	3x24	3x24	3x24
Color measurement device	type	Spectrometer	Spectrometer	Spectrometer
Color measurement	color data points	256	256	256
Light source	type	LED	LED	LED
Redundancy of lightsource	n-fold	6	6	6
Lifetime of light source	h	60,000 80,000	60,000 80,000	60,000 80,000
Access mode	type	back	back	back
Geometry alignment	type	motorized	motorized	motorized
Power consumption	eco typ max W	170 230 350	170 230 350	170 230 350
On board web server		✓	✓	✓
Wall control PC		✓	✓	✓
Web service API		✓	✓	✓
Connectivity	type	2x dual DVI in/out	2x dual DVI in/out	2x dual DVI in/out
Screen gap (@ 25°C)	Hor. vert. mm	0.8 0.5	0.8 0.5	1.0 0.7
Screen gap (@ 25°C)	Hor. vert. inch	0.03 0.02	0.03 0.02	0.04 0.03
Screen width	mm	1,088	1,088	1,550
Screen height	mm	612	612	872
Depth	mm	454	454	622
Weight	kg	44	44	66
Screen width	inch	42.8	42.8	61
Screen height	inch	24.1	24.1	34.3
Depth	inch	17.9	17.9	24.5
Weight	lbs	97	97	146




¹ available alternative screens for video walls: FXS (standard), HVA, High Gain
For other dimensions, please contact your sales representative.

OL-721	OLF-510	OLF-521	OLF-710	OLF-721
				
Full HD resolution	WXGA resolution	Full HD resolution	WXGA resolution	Full HD resolution
70	50	50	70	70
1920 x 1080	1368 x 768	1920 x 1080	1368 x 768	1920 x 1080
31.5	32	45	22.5	31.5
16:9	16:9	16:9	16:9	16:9
FXS ¹	FXS ¹	FXS ¹	FXS ¹	FXS ¹
240	490	490	240	240
560,000:1	560,000:1	560,000:1	560,000:1	560,000:1
165	165	165	165	165
2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary	2,300 6,500 9,300 arbitrary
24	24	24	24	24
Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶
3x24	3x24	3x24	3x24	3x24
Spectrometer	Spectrometer	Spectrometer	Spectrometer	Spectrometer
256	256	256	256	256
LED	LED	LED	LED	LED
6	6	6	6	6
60,000 80,000	60,000 80,000	60,000 80,000	60,000 80,000	60,000 80,000
back	front and back	front and back	front and back	front and back
motorized	motorized	motorized	motorized	motorized
170 230 350	170 230 350	170 230 350	170 230 350	170 230 350
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
2x dual DVI in/out	2x dual DVI in/out	2x dual DVI in/out	2x dual DVI in/out	2x dual DVI in/out
1.0 0.7	1.8 1.1	1.8 1.1	2.3 1.6	2.3 1.6
0.04 0.03	0.07 0.05	0.07 0.05	0.09 0.07	0.09 0.07
1,550	1,088	1,088	1,550	1,550
872	612	612	872	872
622	454	454	622	622
66	53	53	74	74
61	42.8	42.8	61	61
34.3	24.1	24.1	34.3	34.3
24.5	17.9	17.9	24.5	24.5
146	117	117	163	163

16:9 3D LED video walls

OLS(F) series

3rd generation LEDs

		OLS-521	OLS-721	OLSF-521
				
SPECIFICATIONS		Full HD resolution	Full HD resolution	Full HD resolution
Screen diagonal	inch	50	70	50
Resolution	pixel	1920 x 1080	1920 x 1080	1920 x 1080
Absolute resolution	dpi	45	31	45
Aspect ratio	1	16:9	16:9	16:9
Screen	type	FXS ¹	FXS ¹	FXS ¹
Brightness on screen	FXS, REC709 Cd/m ²	490 330 in 2D 3D	240 160 in 2D 3D	490 330 in 2D 3D
Contrast	dynamic	560,000:1	560,000:1	560,000:1
Max color gamut	% of EBU	165	165	165
White point	K	3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary
Color sequence	x frame rate	24	24	24
Color control	type	Sense ⁶	Sense ⁶	Sense ⁶
Internal color processing	bit	3x24	3x24	3x24
Color measurement device	type	Spectrometer	Spectrometer	Spectrometer
Color measurement	color data points	256	256	256
Light source	type	LED	LED	LED
Redundancy of lightsource	n-fold	6	6	6
Lifetime of light source	h	60,000 80,000	60,000 80,000	60,000 80,000
Access mode	type	back	back	front and back
Geometry alignment	type	motorized	motorized	motorized
Power consumption	eco typ max W	170 230 350	170 230 350	170 230 350
On board web server		✓	✓	✓
Wall control PC		✓	✓	✓
Web service API		✓	✓	✓
Connectivity	type	2x dual DVI in/out	2x dual DVI in/out	2x dual DVI in/out
Screen gap (@ 25°C)	Hor. vert. mm	0.8 0.5	1 0.7	1.8 1.5
Screen gap (@ 25°C)	Hor. vert. inch	0.03 0.02	0.04 0.03	0.07 0.06
Screen width	mm	1,088	1,550	1,088
Screen height	mm	612	872	612
Depth	mm	454	622	454
Weight	kg	44	63	53
Screen width	inch	42.8	61	42.8
Screen height	inch	24.1	34.3	24.1
Depth	inch	17.9	24.5	17.9
Weight	lbs	97	139	117

¹ available alternative screens for video walls: FXS (standard), HVA, High Gain
For other dimensions, please contact your sales representative.

OLSF-721



Full HD resolution

70

1920 x 1080

31

16:9

FXS¹

240 | 160 in 2D | 3D

560,000:1

165

3,200 | 6,500 | 9,600 | arbitrary

24

Sense⁶

3x24

Spectrometer

256

LED

6

60,000 | 80,000

front and back

motorized

170 | 230 | 350

✓

✓

✓

2x dual DVI in/out

2 | 1.7

0.08 | 0.07

1,550

872

622

73

61

34.3



24.5

161

4:3 LED video walls

OVL series

3rd generation LEDs




		OVL-508	OVL-515	OVL-708
				
SPECIFICATIONS		XGA	SXGA ⁺	XGA
Screen diagonal	inch	50	50	70
Resolution	pixel	1024 x 768	1400 x 1050	1024 x 768
Absolute resolution	dpi	26	36	19
Aspect ratio		4:3	4:3	4:3
Screen	type	FXS ¹	FXS ¹	FXS ¹
Brightness on screen	FXS, REC709 Cd/m ²	720	720	370
Contrast	dynamic	1,200,000:1	1,200,000:1	1,200,000:1
Max color gamut	% of EBU	165	165	165
White point	K	3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary
Color sequence	x frame rate	24	24	24
Color control	type	Sense ⁶	Sense ⁶	Sense ⁶
Internal color processing	bit	3x24	3x24	3x24
Color measurement device	type	Spectrometer	Spectrometer	Spectrometer
Color measurement	color data points	256	256	256
Light source	type	LED	LED	LED
Redundancy of lightsource	n-fold	6	6	6
Lifetime of light source	typ eco hours	60,000 80,000	60,000 80,000	60,000 80,000
Access mode	type	back	back	back
Geometry alignment	type	manual	manual	manual
Power consumption	eco typ max W	170 230 350	170 230 350	170 230 350
On board web server		✓	✓	✓
Wall control PC		✓	✓	✓
Web service API		✓	✓	✓
Connectivity		2 x dual DVI in/out	2 x dual DVI in/out	2 x dual DVI in/out
Screen gap	Modular screen	< 0.8 mm 0.03 inch	< 0.8 mm 0.03 inch	< 1.5 mm 0.06 inch ³
	Stitched screen			< 0.2 mm 0.008 inch ⁴
Screen width	mm	1,000	1,000	1,400
Screen height	mm	750	750	1,050
Depth	mm	734	734	899
Weight	kg	65	65	101.5
Screen width	inch	39.4	39.4	55.1
Screen height	inch	29.5	29.5	41.3
Depth	inch	28.9	28.9	35.4
Weight	lbs	143	143	224

¹ available alternative screens for video walls: FXS (high brightness, excellent viewing angle), High Gain (ultimate brightness, medium viewing angle)

² ZeroGap technology





³ for optimal modular screen

⁴ by patented stitch concept

OVL-715	OVL-808	OVL-815
		
SXGA+	XGA	SXGA+
70	80	80
1400 x 1050	1024 x 768	1400 x 1050
25	16	22
4:3	4:3	4:3
FXS ¹	FXS ¹	FXS ¹
370	280	280
1,200,000:1	1,200,000:1	1,200,000:1
165	165	165
3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary	3,200 6,500 9,600 arbitrary
24	24	24
Sense ⁶	Sense ⁶	Sense ⁶
3x24	3x24	3x24
Spectrometer	Spectrometer	Spectrometer
256	256	256
LED	LED	LED
6	6	6
60,000 80,000	60,000 80,000	60,000 80,000
back	back	back
manual	manual	manual
170 230 350	170 230 350	170 230 350
✓	✓	✓
✓	✓	✓
✓	✓	✓
2 x dual DVI in/out	2 x dual DVI in/out	2 x dual DVI in/out
< 1.5 mm 0.06 inch ³	< 2 mm 0.08 inch ³	< 2 mm 0.08 inch ³
< 0.2 mm 0.008 inch ⁴	< 0.2 mm 0.008 inch ⁴	< 0.2 mm 0.008 inch ⁴
1,400	1,600	1,600
1,050	1,200	1,200
899	1,023	1,023
101.5	131.3	131.3
55.1	63	63
41.3	47.2	47.2
35.4	40.3	40.3
224	289	289

Lamp video walls

OV-D2 series

		OV-508	OV-513	OV-515	OV-708
					
SPECIFICATIONS		XGA	SXGA	SXGA+	XGA
Screen diagonal	inch	50	50	50	70
Resolution	pixel	1024 x 768	1280 x 1024	1400 x 1050	1024 x 768
Absolute resolution	dpi	26	33	36	19
Aspect ratio		4:3	5:4	4:3	4:3
Screen	type	HVA ¹	HVA ¹	HVA ¹	HVA ¹
Brightness on screen	Cd/m ² 120 132 180	290 320 435	270 300 405	325 355 485	145 160 215
Contrast	dynamic	4,800:1	5,100:1	5,100:1	4,800:1
Max color gamut	% of EBU	100	100	100	100
White point	K	6,500 (3,200)	6,500 (3,200)	6,500 (3,200)	6,500 (3,200)
Color sequence	x frame rate	3	3	3	3
Color control	type	Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶
Internal color processing	bit	3x13	3x13	3x13	3x13
Color measurement device	type	color sensor	color sensor	color sensor	color sensor
Color measurement	color data points	3	3	3	3
Light source	type	UHP 120 132 180	UHP 120 132 180	UHP 120 132 180	UHP 120 132 180
Redundancy of lightsource	n-fold	dual	dual	dual	dual
Lifetime of light source	hours 120 132 180	10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000
Access mode	type	back	back	back	back
Geometry alignment	type	manual	manual	manual	manual
Power consumption	W 120 132 180	390 430 550	390 430 550	390 430 550	390 430 550
On board web server		✓	✓	✓	✓
Wall control PC		✓	✓	✓	✓
Web service API		✓	✓	✓	✓
Connectivity		1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out
		1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out
Screen gap	Modular screen	< 0.8 mm/0.03 inch	< 0.8 mm/0.03 inch	< 0.8 mm/0.03 inch	< 1.5 mm/0.06 inch ⁴
	Stitched screen	0 mm/0 inch ²	0 mm/0 inch ²	0 mm/0 inch ²	< 0.2 mm/0.008 inch ³
Screen width	mm	1,000	1,000	1,000	1,400
Screen height	mm	750	800	750	1,050
Depth	mm	734	715	734	899
Weight	kg	65	68.5	65	101.5
Screen width	inch	39.4	39.4	39.4	55.1
Screen height	inch	29.5	29.5	29.5	41.3
Depth	inch	28.9	28.1	28.9	35.4
Weight	lbs	143	151	143	224

¹ available alternative screens for video walls: HVA standard (normal brightness, excellent viewing angle), HVM (medium brightness, wide viewing angle), HVX (high brightness, medium viewing angle)

² ZeroGap technology

³ by patented stitch concept

⁴ for optimal modular screen

OV-713	OV-715	OV-808	OV-815	OV-1008	OV-1015
					
SXGA	SXGA+	XGA	SXGA+	XGA	SXGA+
70	70	80	80	100	100
1280 x 1024	1400 x 1050	1024 x 768	1400 x 1050	1024 x 768	1400 x 1050
23	25	16	22	13	17.5
5:4	4:3	4:3	4:3	4:3	4:3
HVA ¹	HVA ¹	HVA ¹	HVA ¹	HVA ¹	HVA ¹
140 150 165	170 185 245	115 125 170	125 140 190	165 180 250	185 206 280
5,100:1	5,100:1	4,800:1	5,100:1	4,800:1	5,100:1
100	100	100	100	100	100
6,500 (3,200)	6,500 (3,200)	6,500 (3,200)	6,500 (3,200)	6,500 (3,200)	6,500 (3,200)
3	3	3	3	3	3
Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶	Sense ⁶
3x13	3x13	3x13	3x13	3x13	3x13
color sensor	color sensor	color sensor	color sensor	color sensor	color sensor
3	3	3	3	3	3
UHP 120 132 180	UHP 120 132 180	UHP 120 132 180	UHP 120 132 180	UHP 120 132 180	UHP 120 132 180
dual	dual	dual	dual	dual	dual
10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000	10,000 6,000 6,000
back	back	back	back	back	back
manual	manual	manual	manual	manual	manual
390 430 550	390 430 550	390 430 550	390 430 550	390 430 550	390 430 550
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out	1 x DVI-D in/out
1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out	1 x dual DVI in/out
< 1.5 mm/0.06 inch ⁴	< 1.5 mm/0.06 inch ⁴				
< 0.2 mm/0.008 inch ³	< 0.2 mm/0.008 inch ³	< 0.2 mm/0.008 inch ³	< 0.2 mm/0.008 inch ³	< 0.2 mm/0.008 inch ³	< 0.2 mm/0.008 inch ³
1,400	1,400	1,600	1,600	2,032	2,032
1,120	1,050	1,200	1,200	1,524	1,524
973	899	1,023	1,023	1,400	1,400
108.5	101.5	131.3	131.3	273.5	273.5
55.1	55.1	63	63	80	80
44.1	41.3	47.2	47.2	60.2	60.2
38.3	35.4	40.3	40.3	55.1	55.1
239	224	289	289	602	602



Narrow bezel LCD video walls NSL series



SPECIFICATIONS		NSL-4601	NSL-5521
		WXGA	Full HD
Backlight	Type	CCFL	Direct LED
Screen diagonal	Inch	46	55
Resolution	Pixel	1366 x 768	1920 x 1080
Absolute resolution	dpi	35	40
Brightness	typ max Cd/m ²	500 700	500 700
Screen technology	Type	LCD	LCD
Contrast		3,000:1 (typ.)	3,000:1 (typ.)
Internal color processing		10 bit color resolution	10 bit color resolution
Light source lifetime	hours	50,000	50,000
Power consumption	typ max W	130 300	130 300
Wall control		NSL Control Manager software	NSL Control Manager software
Connectivity		VGA in/out	VGA in/out
		DVI-D in/out	DVI-D in/out with HDCP
		HDMI input	HDMI type A in/out
		Component in/out	
		S-video in/out	S-video in/out
		CVBS in/out (PAL/NTSC)	CVBS in/out (PAL/NTSC)
Screen gap	mm inch	< 6.7 0.264	1.9 0.075 and 3.8 0.15
Screen width	mm	1,026.1	1,215.3
Screen height	mm	580.2	686.1
Depth	mm	98	98.2
Weight (net/gross)	kg	29.8 35.2	35 48.5
Screen width	inch	40.4	47.8
Screen height	inch	22.8	27
Depth	inch	3.9	3.9
Weight (net/gross)	lbs	65.7 77.6	77.3 107.1
Regulation compliance	Type	CE, CCC, ROHS, TUV, cTUVus	CE, CCC, ROHS, TUV, cTUVus, WEEE
Operating temp (min-max)	°C	5-40	0-40
Operating temp (min-max)	°F	41-104	32-104
Humidity	%	20-80% non-condensing	20-80% non-condensing

Personal video walls

LDX series


























		LDX-46	LDX-55
			
		Full HD	Full HD
SPECIFICATIONS			
Backlight	Type	Edge LED	Edge LED
Screen diagonal	Inch	46	55
Resolution	Pixel	1920 x 1080	1920 x 1080
Absolute resolution	dpi	48	40
Aspect ratio		16:9	16:9
Brightness	Cd/m ²	600	600
Screen technology	Type	LCD	LCD
Contrast		3,000:1 (typ.)	4,000:1 (typ.)
Light source lifetime	hours	50,000	50,000
Power consumption	typ max W	120 220	130 240
Wall control		NSL Control Manager software	NSL Control Manager software
Inputs and outputs		Single hub DVI-D in/out	Single hub DVI-D in/out
		HDMI type A	HDMI type A
		2x HD-SDI in/out	2x HD-SDI in/out
		CVBS in/out	CVBS in/out
		VGA in/out	VGA in/out
		3x component video in/out	3x component video in/out
		S-video in/out	S-video in/out
Screen width	mm	1,075	1,267
Screen height	mm	639	749
Depth	mm	85	81
Weight (net/gross)	kg	28	35
Screen width	inch	42.3	49.9
Screen height	inch	25.2	29.5
Depth	inch	3.3	3.2
Weight (net/gross)	lbs	61.8	77.3
Regulation compliance	Type	CE, TÜV, cTÜVus, CCC, ROHS, WEEE	CE, TÜV, cTÜVus, CCC, ROHS, WEEE
Operating temp (min-max)	°C	0-40	0-40
Operating temp (min-max)	°F	32-104	32-104
Humidity	%	10-90% non-condensing	10-90% non-condensing

SERIES	Screen size						Technology		
	46 inch	50 inch	55 inch	70 inch	80 inch	100 inch	lamp-lit	LED-lit	LCD
OL	16:9 LED VIDEO WALLS								
OL-510		✓						✓	
OL-521		✓						✓	
OL-710				✓				✓	
OL-721				✓				✓	
OLF	16:9 LED VIDEO WALLS WITH FRONT ACCESS								
OLF-510		✓						✓	
OLF-521		✓						✓	
OLF-710				✓				✓	
OLF-721				✓				✓	
OLS	16:9 3D LED VIDEO WALLS								
OLS-521		✓						✓	
OLSF-521		✓						✓	
OLS-721				✓				✓	
OLSF-721				✓				✓	
OVL	4:3 LED VIDEO WALLS								
OVL-508		✓						✓	
OVL-515		✓						✓	
OVL-708				✓				✓	
OVL-715				✓				✓	
OVL-808					✓			✓	
OVL-815					✓			✓	
OV-D2	LAMP VIDEO WALLS								
OV-508		✓					✓		
OV-513		✓					✓		
OV-515		✓					✓		
OV-708				✓			✓		
OV-713				✓			✓		
OV-715				✓			✓		
OV-1008						✓	✓		
OV-1015						✓	✓		
NSL	LCD VIDEO WALLS: NARROW-BEZEL LCD								
NSL-4601	✓								✓
NSL-5521			✓						✓
LDX	PERSONAL VIDEO WALLS: WIDE SCREEN LCD DISPLAYS								
LDX-46	✓								✓
LDX-55			✓						✓

Ratio			Resolution					Access	3D
4:3	5:4	16:9	XGA	WXGA	SXGA	SXGA+	full HD	front	stereo
		✓		✓					
		✓					✓		
		✓		✓					
		✓					✓		
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Icons explained

Throughout this catalog, you'll often find icons next to the pictures of our products. In case of doubt, please refer to the list below for their explanation:

	3D stereoscopy option		Redundant lamp technology		Sense ⁶ technology with spectrometer for higher accuracy
	Screen aspect ratio of 4:3		Front accessible		SXGA+ resolution
	Screen aspect ratio of 16:9		Full HD resolution		SXGA+ resolution
	Designed for 24/7 mission critical applications		Additional HD-SDI inputs		WXGA resolution
	46" screen		Screen with LCD technology		XGA resolution
	55" screen		LED-lit rear-projection technology		Ultra-wide viewing angle
	Auto align		Redundant		Web server for remote access
	Compact		Scalable technology allowing bigger video walls		
	Liquid cooled engine		Sense ⁶ auto-calibration of colors and brightness		

Find the video wall display you need in just two clicks!

Go to our online product finder at

www.barco.com/en/controlrooms/videowall_productfinder



About Barco

Barco designs, manufactures and markets innovative hard- and software visualization solutions for a variety of applications, such as traffic management, surveillance, command and control, broadcasting and telecom networks, and utilities and process control. With Barco's visualization solutions, control center operators are offered a real-time collaborative work experience for monitoring, response dispatching and coordination, access and flow control, recording, and overall systems control for 24/7 operations.



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Technical specifications are subject to change without prior notice

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