

CADWall & MegaCADWall

Ultra-high resolution, collaborative display walls



Barco's Collaborative & Decision-making (CAD) display systems are unrivaled in terms of collaborative features and image quality.

In industries and markets such as oil and gas, automotive design, engineering, corporate decision-making, higher education and scientific research, the CADWall and MegaCADWall foster better and more efficient decision-making, by allowing multiple sources to be controlled, viewed and analyzed simultaneously on a large, high-resolution display, in any combination of 2D and 3D stereo. When it comes to ease of use, Barco's display walls are second to none.

BARCO

Visibly yours

Enabling visual collaboration

Faster decision-making in the collaborative meeting room

A familiar, large-screen Windows environment provides a superior alternative to meetings where everything is viewed sequentially or partially. CADWalls and MegaCADWalls offer compatibility with market-leading videoconferencing equipment, so even **remote collaboration** becomes as easy as working with a laptop. In addition, their **network access** ensures fast decision-making because you have an immediate view of all sources and information you need. You don't have to compromise between HD videoconferencing, rich data analysis and video display: **you can have it all** on one large canvas.



Efficient education and detailed 3D stereo research

Nothing is more important in education and research than being immersed in the complete picture. And what is better for that than a display that lets you see everything at once? College auditoriums use Barco's CADWalls and MegaCADWalls **for content cross-analysis** and **distance learning** through videoconferencing, while science centers use their 3D stereo capabilities to get a clear insight into large quantities of data. In fact, Barco's display walls can be converted to **any need that may arise** in research and higher education: detailed rendering of complex data, climate research, multiple news sources in real-time, virtual backdrops or simulated archaeological walkthroughs, to name but a few.



Improved asset management in the oil and gas industry

Today's oil and gas sectors rely increasingly on remote collaboration centers with multidisciplinary teams that **share data in real-time**, maximizing the potential of existing and correctly gauging the potential of new **energy resources**. Barco's CADWall and MegaCADWall systems are essential to this approach. Their abilities to combine 2D and 3D stereo data with HD videoconferencing on a familiar Windows desktop makes it easy for any team member to use the system, regardless of job background. In addition, due to the display walls' incredible resolution, **not a single detail is lost**.



Realistic automotive and design rendering

The automotive industry has long realized the **cost-saving benefits** of virtually rendering designs over building new prototypes. Barco's CADWall and MegaCADWall systems offer the automotive industry the chance to render true **1:1 car models** in accurate, vibrant colors. Thanks to their 3D stereo and user-friendly multi-windowing capabilities, they can also be used for collaborative design, virtual assembly processes or comparative analysis between different models.



Virtual construction and life-like product design

Barco's CADWall and MegaCADWall solutions allow architects to create accurate virtual representations of rooms and buildings and organize **3D walkthroughs** through their designs. Product designers, too, can use of our systems' enormous pixel real estate for distributed engineering to approximate reality as best as possible, and compare, exchange or **collaborate on several designs** simultaneously on one large canvas. Examples of such applications include the design of household appliances, ships, satellites or complete store interiors.



Enhanced collaboration through flawless visu

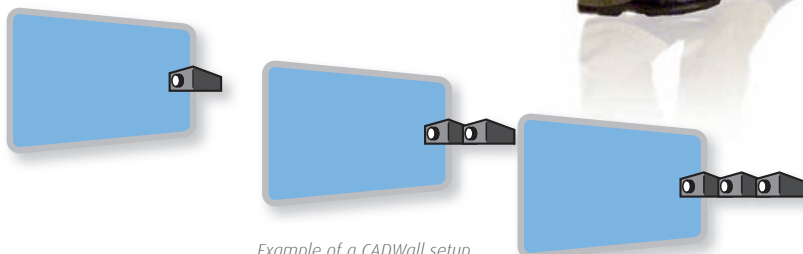
Barco's CADWall and MegaCADWall systems offer the best image quality available. From detailed depictions of complex, **real-time data** to rendering design models, there is no source that our display walls can't handle. What's more, you can display several **sources simultaneously**, even while videoconferencing in full HD.



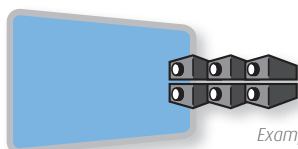
Mastery of 3D stereo

Barco has mastered **all types of 3D stereo** technology. This includes:

- Our broad experience with the unique, cost-effective **Infitec** stereo filtering technology that requires no battery-charged 3D glasses.
- The know-how to implement and calibrate **regular active** (with one projector per channel) **and passive** (with two projectors per channel) **stereo** setups.



Example of a CADWall setup

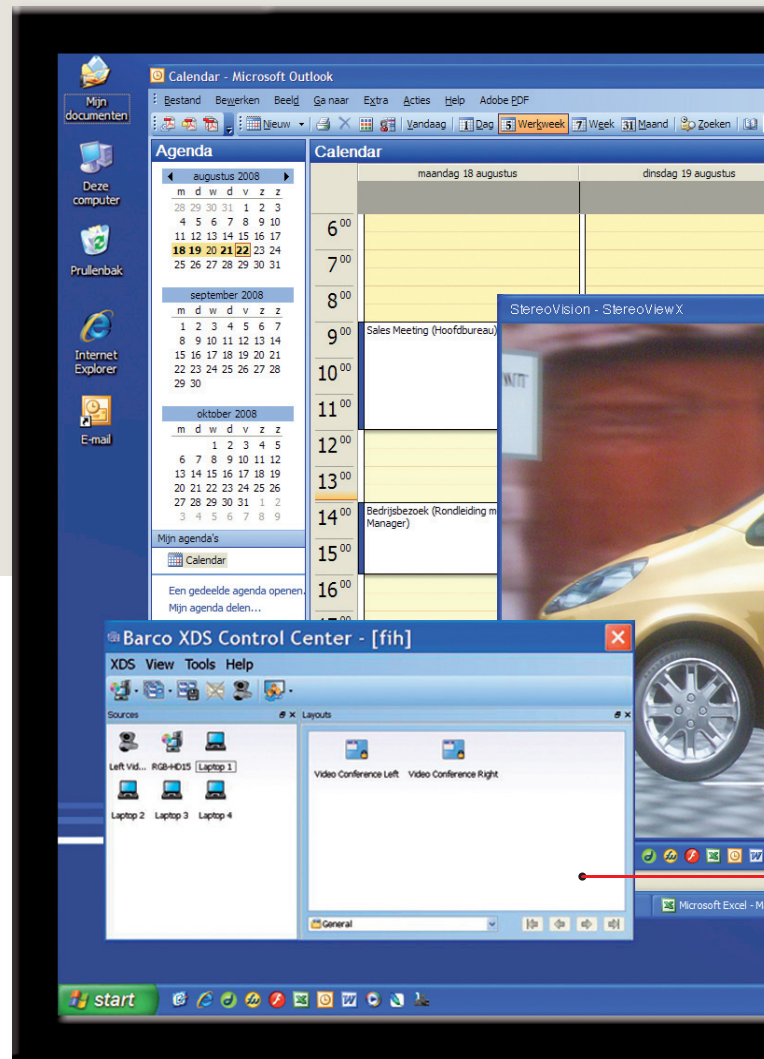
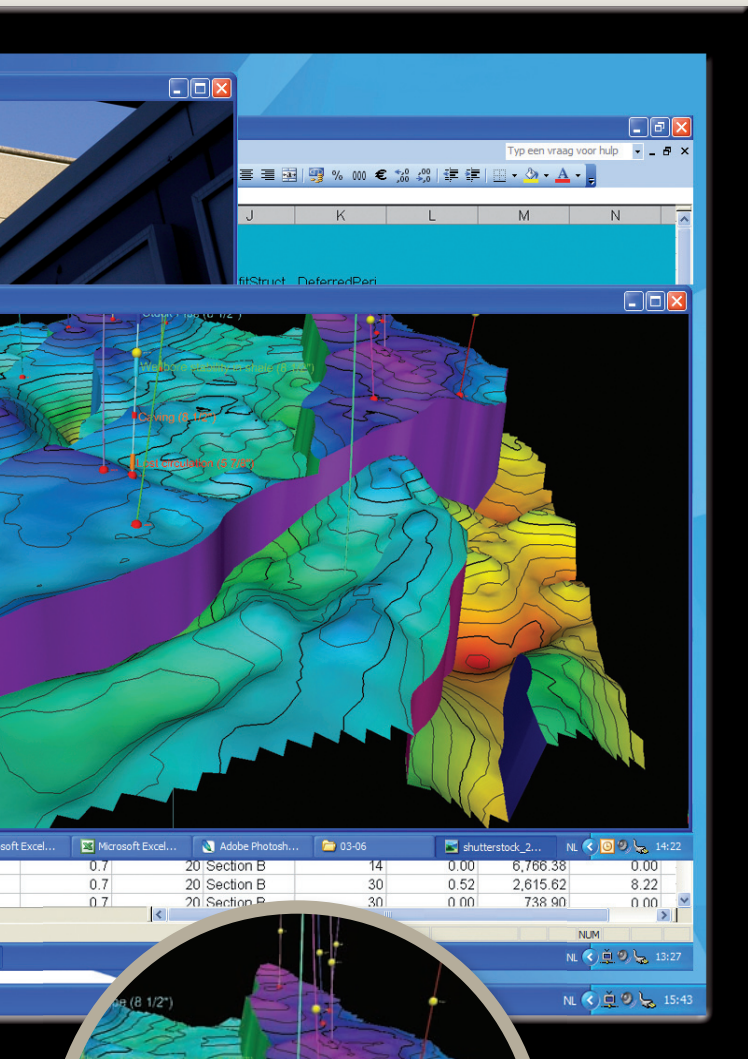


Example of a MegaCADWall setup

Best image quality

CADWalls and MegaCADWalls are configured and set up **according to your needs**. CADWalls range from single-projector systems to widescreen multi-projector displays, while MegaCADWalls feature multiple rows of projectors that can **increase pixel density** to levels on par with human eyesight. Barco's unique superflat screen technology guarantees that not a single pixel gets lost, deformed or discolored, preserves **excellent contrast levels** and offers the best view even from wide angles.

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Projectors optimized for display system performance

Barco's projectors that power our display walls have been designed from the ground up as stable, durable multi-channel projectors. They carry all the necessary features on board that make them work effortlessly within a system setup:

- **Edge blending** creates one seamless multi-projector image without blurry overlap zones. Barco is an expert in both electronic and optical edge blending, and has also developed innovative alpha and beta plane technology to guarantee a flawless composite image.
- **DynaColor** ensures stable color quality across the entire display, by matching the projectors' slight color differences.
- **Linked constant light output** guarantees that your display has the same overall brightness levels, and automatically adjusts its thresholds when projectors or lamps are replaced, resulting in a constant, stable brightness.

Ensuring an ergonomic working environment

It is not only the image quality or the user comfort that counts – it is the total picture. Barco systems possess some of the **lowest noise levels** known in the visualization world, and feature advanced cooling that reduces excess heat to negligible levels. To further **minimize chances of physical stress**, the high brightness and regular image quality of our projectors make it possible to work in a naturally lit environment, which is much easier on the eyes, and ultimately, on the mind.



User-friendly, familiar Windows interface

Barco's XDS Control Center software suite makes working with **multiple sources** simultaneously very easy. Whether installed on your computer connected to the display, or on our award-winning XDS-1000 display management system, the XDS Control Center suite offers **direct access** to all sources through a familiar **Windows interface**. You control these sources with a simple mouse and keyboard, and you can create, store and recall screen layouts at will.

The XDS Control Center software suite facilitates **collaboration**. It allows you to view and take control of remote computer desktops through the network or through classic cabling, and includes user-friendly **videoconferencing tools**. In this way, you can host or participate in life-size videoconferences with access to all relevant data at hand, without the need to travel or interrupt the collaboration session to fetch essential files.

Barco's XDS Control Center suite also saves administrators' time and expenses. Your staff can check the display systems' run time, set access rights, distribute standard layouts for a group of display systems or even create automated startup and shutdown sequences, so that **manual interventions will be limited to a minimum**.

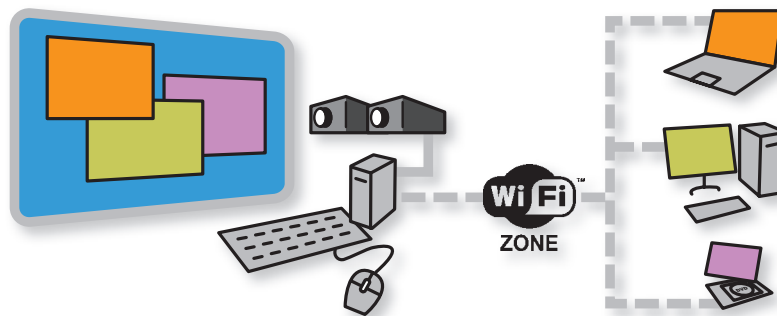
Typical CADWall / MegaCADWall setup

Barco offers the widest possible range of projectors:

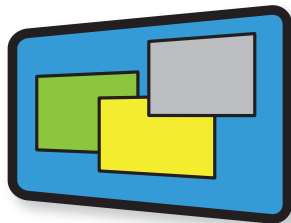
We were the world's first to release a native 10 megapixel projector with **LCoS** technology, and have optimized it to work in passive 3D stereo setups, to let you take full advantage of high-density LCoS technology.

Barco has developed a series of powerful and durable **three-chip DLP** 12,000 lumens projectors, both in native 2D and 3D versions. They are available in SXGA+, 1080p HD or WUXGA versions, depending on your choice.

In addition, we also offer compact, entry-level **single-chip DLP** projectors with a 5,000 lumens light output. Like their bigger cousins, they also come in SXGA+, 1080p HD or WUXGA versions.



Barco has developed its own screen mechanics and superflat **screen technology** that maximizes the image quality you can get from your system, resulting in excellent contrast levels, wide viewing angles, and no hot spots. Our screens can come in various models, including an easily rollable screen.



Barco offers **display management** systems in the form of the multi-windowing, award-winning XDS-1000 display management system, or its line of advanced Image Processing products that offer a wide variety of show effects.



Barco's **display management software** is at the heart of your visualization system, and is completely compatible with each type of CADWall or MegaCADWall. This guarantees the same collaboration experience across an entire range of display systems.



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Barco is an ISO 9001 registered company.
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 product sheet can be found on www.barco.com.

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