

# Understand. Collaborate. Decide.

Collaborative visual decision-making solutions



**BARCO**

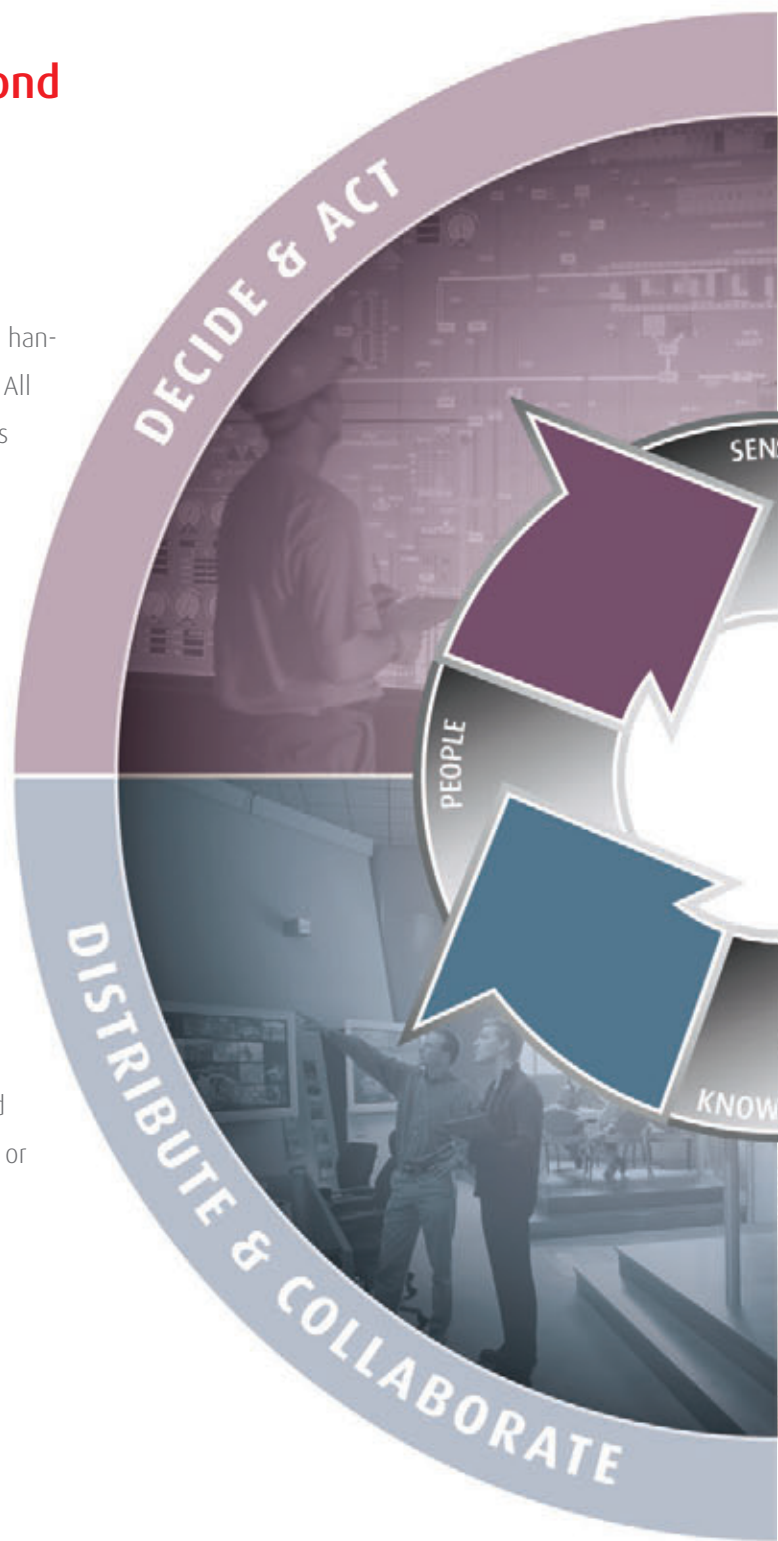
Visibly yours

# Faster and smarter decisions, inside the control room and beyond

Today's control rooms are complex networked environments handling an ever increasing number of video and data sources. All over the world, Barco's control room visualization solutions help operators to make the best of this information, by presenting it in the most efficient and ergonomic way, and by creating shared situational awareness among all possible stakeholders.

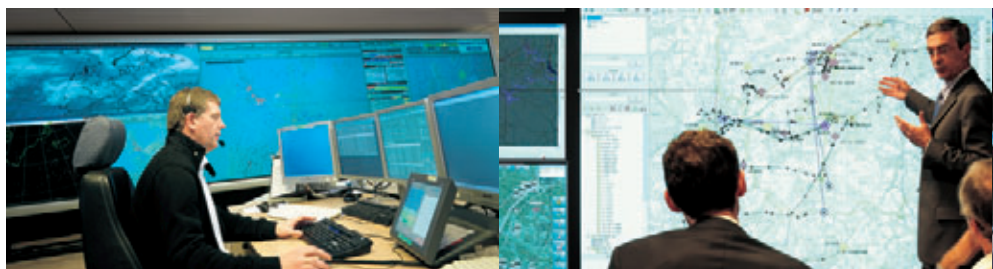
## Situational awareness without boundaries

But the story continues. Today, companies and authorities increasingly seek to collaborate beyond the traditional boundaries of control centers and agencies. By consolidating their efforts, they are striving towards distributed decision-making in order to make even smarter and faster decisions, and in the end solve crisis situations faster or manage processes more efficiently.



Traffic management and surveillance centers

Tactical and joint operations centers



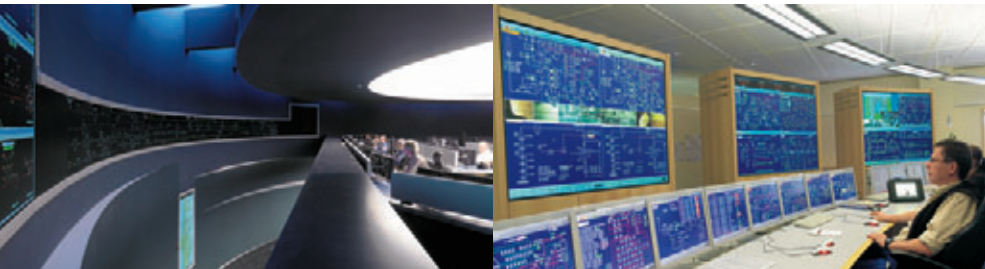


Barco's **universal visualization platform**, consisting of professional displays or video walls, powerful display controllers and smart control room management software, helps control room professionals to:

- **collect** all possible types of sources and data
- **understand** the data by organizing it in the most efficient and transparent way and create visual information
- **distribute** the information and collaborate with decision-makers and information stakeholders in the most efficient way
- make solid **decisions** and coordinate **actions**

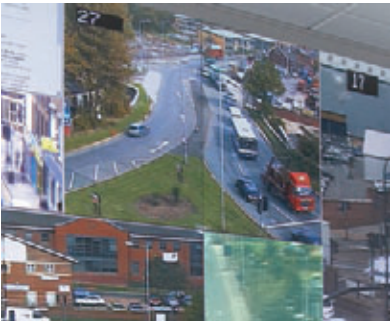
Network operations centers

Process control and utilities centers



## From source to display – **collecting** the data

Control rooms are often handling a highly diverse spectrum of information sources. Thanks to Barco's universal visualization platform, it is possible to collect and display nearly any signal format, ranging from analog to IP.



“Barco has certainly provided a crucial element which now has the flexibility and scalability to grow as road usage looks set to increase.”

*Peter Bull, syITS project manager, Sheffield, UK*



### **Any source type**

Real-time signals coming from highway sensors, vehicle GPS systems and other intelligent transportation systems, SCADA sources, digital maps or video sources. Thanks to the high resolution graphics and video input modules in Barco's universal visualization platform, they can be visualized without the need for specialized cabling or routings.

### **Grab once, use anywhere**

One of the strongest advantages of networking technology is the inherent switching capability. Visual content can now be sent around anywhere, wherever there is network connectivity.

### **Reduced cabling, reduced cost**

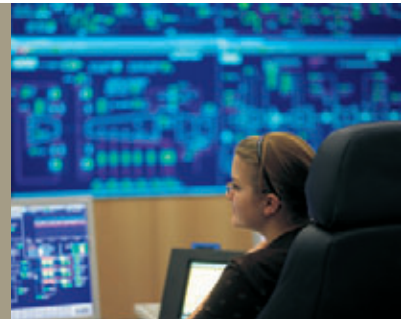
By making use of a standard IP network with unified cabling, the cabling cost as well as and the use of all kinds of switchboxes or complex routing setups can be significantly reduced.

### **Unlimited amount of sources**

New visual sources can be added anytime, wherever they are located. In addition, Barco's integrated streaming video solutions offer unmatched performance for the simultaneous processing of large amounts of streaming video signals in real-time with minimal latency.

“The Barco experts seamlessly integrated our existing software and various connections into their visualization solution. A complex, challenging job which, obviously, required a lot of know-how and expertise.”

*Dieter Lühr, Chief plant operation manager, Vattenfall Hamburg, Germany*



### Full flexibility to ...

- **display any source type**, including video, DVI and screen scrapes
- collect from a single source or a **distributed network** of sources
- capture **low- to high-density** inputs
- **display** sources **locally** or on **remote displays**

### Barco offers:

- **High-resolution graphics input modules**
- **SDI/Composite video input modules**
- **19" rack-mountable chassis for Barco's range of input modules**



# From data to knowledge – **understanding**

Smart organization of data leads to enhanced knowledge. Barco's control room management software allows operators to create a personalized view of their sources and present it on a wide range of displays, from small screen to large video wall.



“Barco’s visualization solution presents NDPL operators with all critical information at a single glance. This significantly reduces the reaction time in case of incidents, and as a result decreases outage times.”

*Sanjay Kumar Banga, Head of the NDPL Automation & Network Engineering, Delhi, India*



## **Shared situational awareness**

Barco's networked platform allows operators to easily share data with colleagues or supervisors and thus create shared situational awareness. Operators can create personal layouts and views and bundle them into perspectives that can be shared with other operators or supervisors for collaboration or approval. These can then be pushed on to more public group display walls locally or at remote locations.

## **Easy knowledge generation**

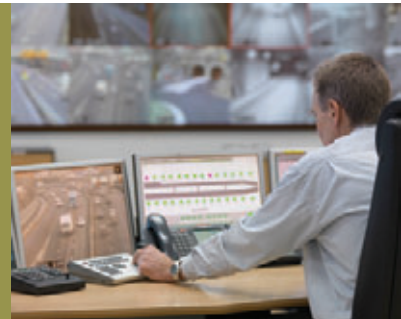
Barco's visualization platform allows operators and decision-makers to easily generate a preview of a multitude of sources (e.g. video, application screen data, external DVI feeds, etc.). By combining all these sources into new perspective, they have a unique way to generate new knowledge on any type of display, from simple PC workstation to large-screen display system.

## **Field-proven display technology**

Barco's full range of professional visualization solutions fulfill practically any control room need, from wide-screen operator display to personal wall, to large-screen video wall for collaborative use. Dedicated solutions for daily business use or 24/7 mission-critical applications are available. Barco's display products have proven their value in installations all over the world in a wide range of applications.

“With the Barco video wall, the Oslo Traffic Management Center can provide for better, safer and more environment-friendly traffic coordination.”

*Kai Gundersen, Oslo Traffic Center*



### Full flexibility to ...

- enhance **situational awareness** with overviews, personalized layouts and scenario building
- present information on **personal** workstations or **group** displays
- use **any display size**, from small display to video wall

### Barco offers:

- **Display controllers for multi-channel displays**
- **Rear-projection display walls, including LED-lit video walls**
- **Tiled LCD video walls**
- **Wide-screen LCDs**
- **Control room management software**



Tiled LCD video wall



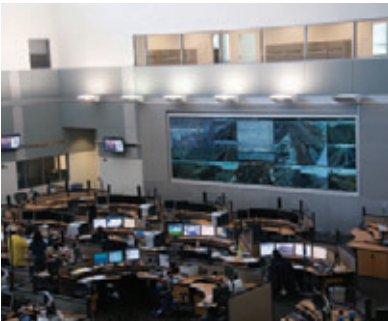
LED-lit video wall



Wide-screen LCD

# Flexible **distribution** and intuitive **collaboration** with decision-makers and

Efficient collaboration and decision-making is only possible if operators and decision-makers have easy and timely access to quality information. They need a common operational picture and the ability to share their situational awareness with other stakeholders, be it inside the control room or across multiple control rooms or agencies.



“Barco’s unique networked visualization concept really opens the way towards multi-agency collaboration, thereby enabling faster decision-making and quicker response times.”

*Howard Schlieper, Vice-President, Polysonics, Washington D.C., USA*



## **Collaboration without boundaries**

Barco's universal visualization platform enables operators to view their content and collaborate in real-time with anyone in the control room facility. The distributed architecture of the platform enables the content to be captured once, on any location, and distributed and displayed as many times as required in any location. It even opens up the possibility to take over the control of remote sites, or to make use of back-up sites or follow-the-sun control center operations.

## **Fast and easy interaction**

Barco's control room management software allows for fast and easy interaction. Personal operator views can easily be shared with other stakeholders for collaboration and then pushed on to group display walls. Reversely, Barco's control room management software can bring up (pull) sources that are displayed at remote display walls or workstations onto the local operator's screen. If required, the operator can again push this remote view to the local video wall or any other PC with Barco's software loaded on it.

## **System redundancy**

The TransForm N system hardware platform offers high redundancy: redundant networking based on IP technology, duplication of the central processing machine and N+1 redundancy on the output modules when combined with dual input projection modules.

# stakeholders

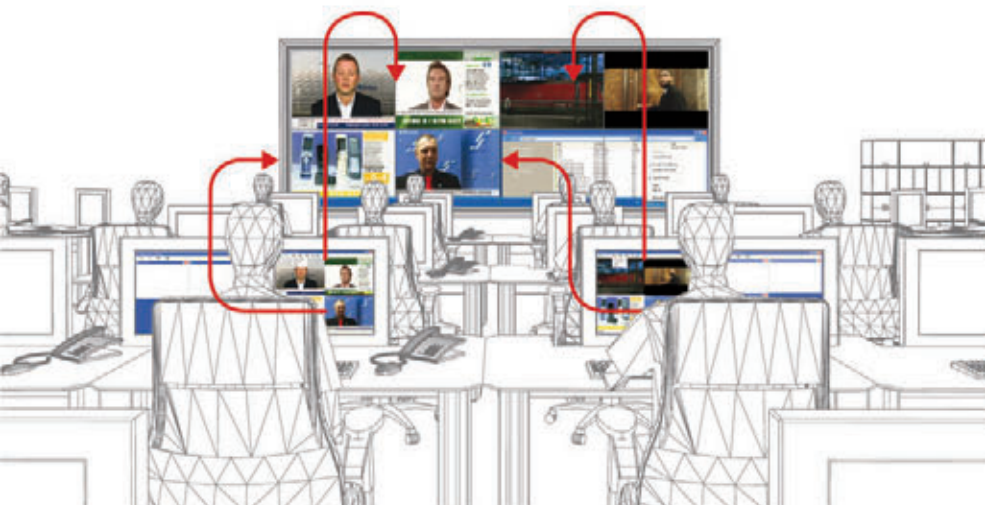
“Barco fosters collaboration and takes decision-making to a higher level. The video walls really help our people take more informed, faster decisions and intervene more effectively.”

*Dilip Rahulan, Chairman and CEO of Pacific Controls, UAE*



## Full flexibility to ...

- configure network access or **user management**
- use **standard software** or **hardware** acceleration
- **integrate** the distributed functionality into **third-party** applications



## Barco offers:

- **Control room management software**
- **Display controllers for multi-channel displays**
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# Quality information allowing for **smart decisions** and **prompt actions**

Decisions are only as good as the information they are based upon. Thanks to Barco's universal visualization platform, decisions can be made based on qualitative information, which in turn can be effectively disseminated towards the relevant stakeholders.



“With Barco’s advanced visualization tools, the FDOT 4 TMC can detect incidents early to enable shorter response times by emergency agencies.”

*Steven Corbin, District ITS Operations Manager, Florida, USA*



## **Coordinated responses**

Barco's control room management software and control room displays allow for quick and user-friendly exchange of information, which is a reliable basis for coordinated actions and responses with multiple stakeholders or even multiple control rooms.

## **Easy dissemination of decisions**

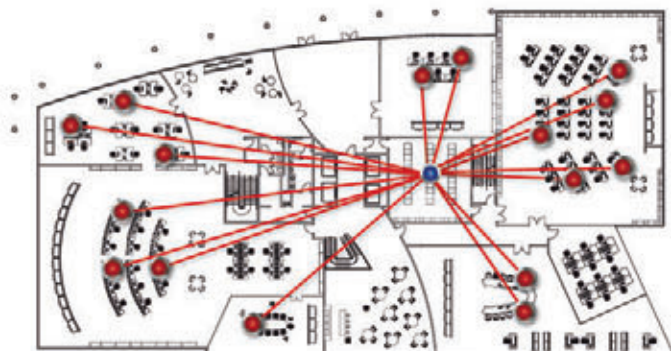
Network technology allows information to be easily disseminated towards the end user, ranging from other decision rooms, mobile control displays or even visual public announcement systems.

“We see it as a true evolution: from static displays with tapes, over plasma TV and the existing video walls in our dispatch offices through to Barco, the leader in the field of visualization.”

*Transmission Dispatch Manager, American Electric Power, Columbus, Ohio, USA*

### Full flexibility to ...

- **remotely control** displays or sources
- **distribute** and **publish** sources to any display
- include **unmanned displays** or digital signage
- follow up, **coordinate** or monitor data in **real time**



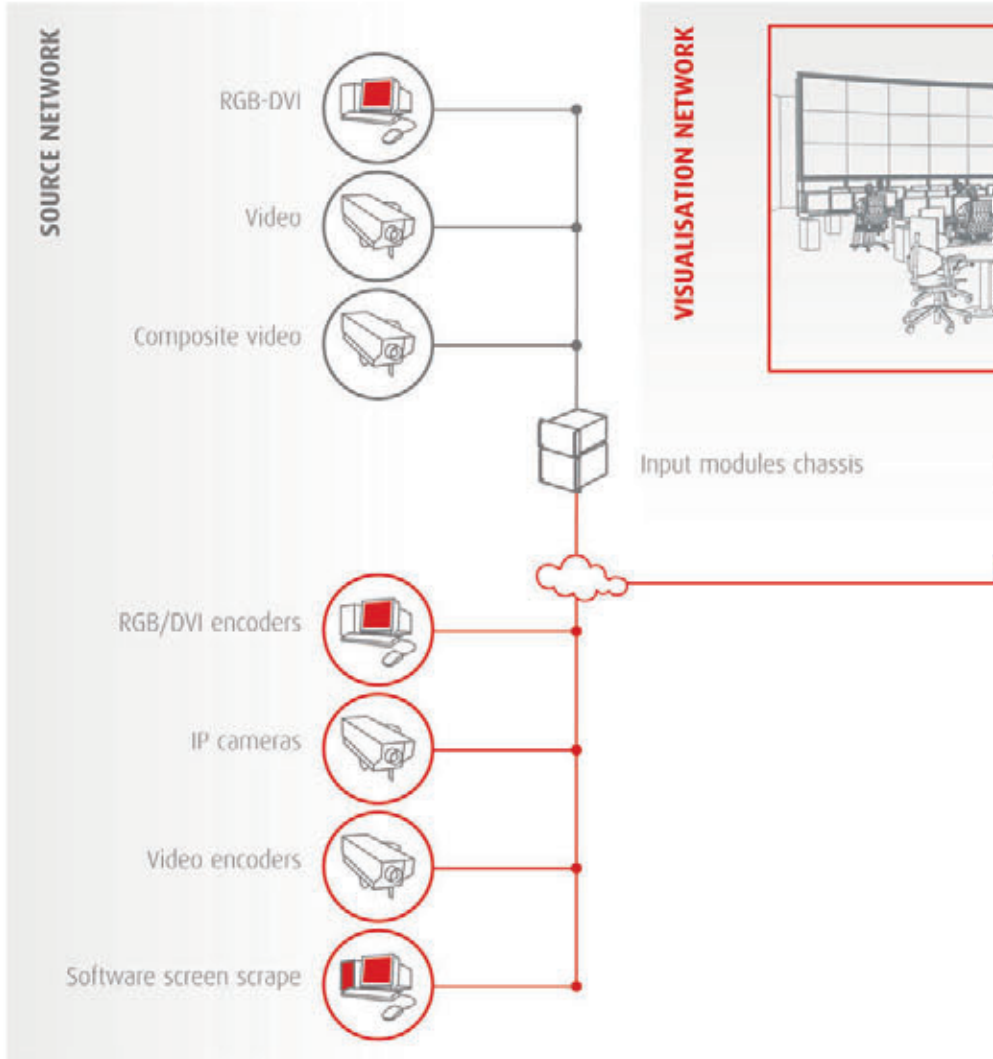
Barco's Control room management software allows to monitor operations and visualize real-time content from anywhere in and beyond the control room facility.

### Barco offers:

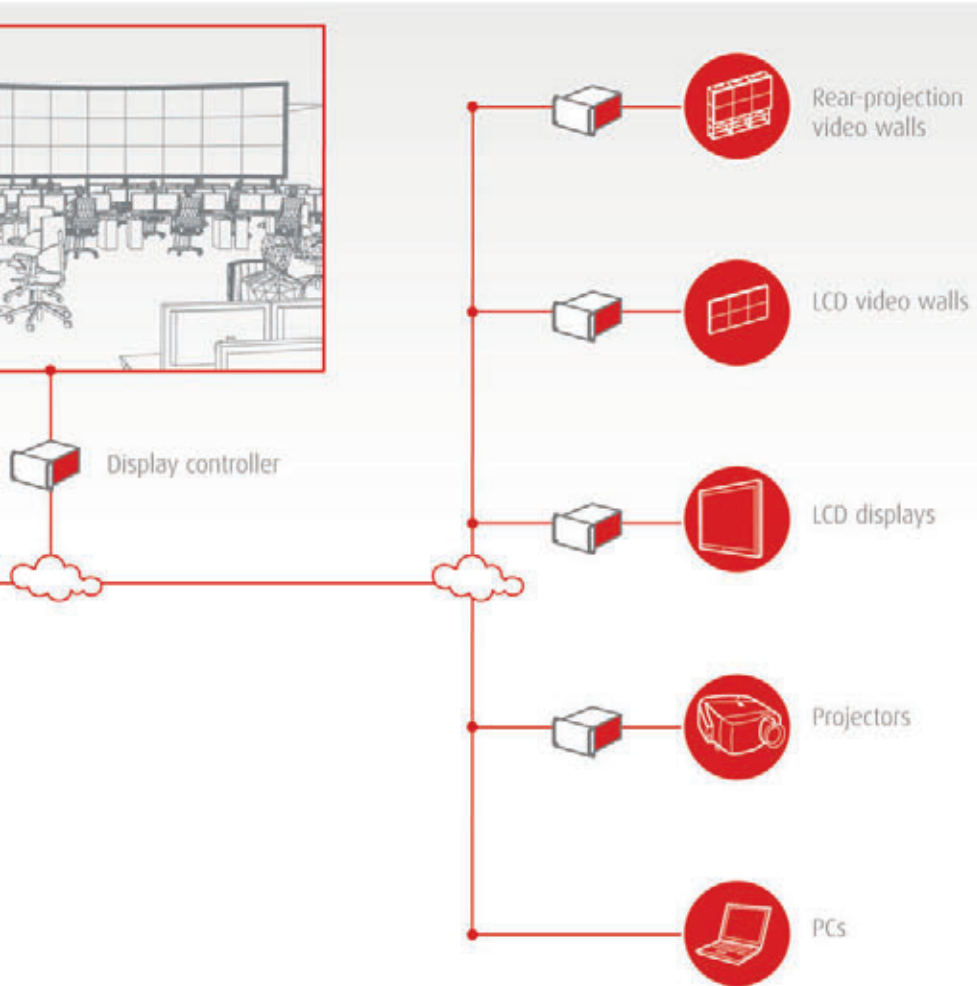
- **Control room management software**



# Building the scene for **centralized** and **distributed** decision-making



By making use of IP networking technologies, Barco's universal visualization platform is able to make information omnipresent throughout your organization and beyond. In addition, Barco's smart control room management software enables authorized decision-makers and stakeholders throughout the organization to collect and process any incoming source type; visualize it on any display device in the network; and monitor, control and share visual information.



Barco's universal visualization platform consists of:

- Barco's **control room management software** for systems management and non-hardware accelerated viewing
- A **networked hardware platform**, including source capturing units, powerful display controllers and display generating units
- High-quality **rear-projection modules** or **LCD panels**







“Barco's visualization solution allows everyone involved to easily share information live, in real time. This help us optimize response times, actions and decisions and identify problems at the earliest possible stage.”

## 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. Barco's solutions allow for efficient collaboration, monitoring and on-screen interaction with data sources and sensors. They highlight potential congestion points and help coordinate emergency responses more efficiently.

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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](http://www.barco.com).

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