

# See the bigger picture. Act on the details.

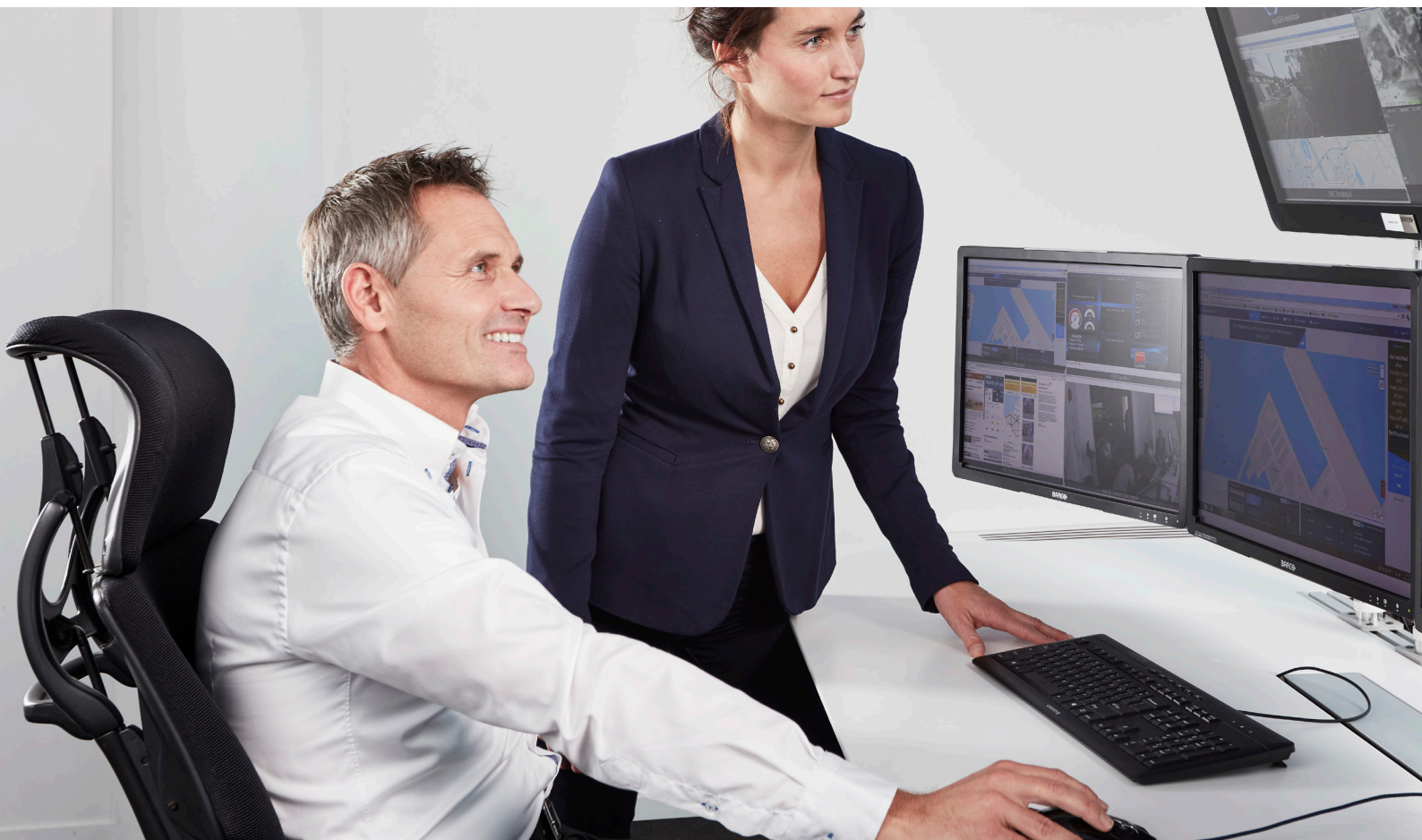
Barco OpSpace



**BARCO**

# Smart workspace for control room operators

Today, operators can either access only one portion of the required information, or they have to physically switch between different workstations – each with its own keyboard and mouse. Both options significantly reduce the operator's effectiveness, causing delays in assessing a situation and, potentially, bad decisions.



## Stay in control of your sources

OpSpace offers you an integrated operational view for complete situational awareness and control. While you are at the center of information, you can simply select the relevant information from multiple displays right when you need it. OpSpace allows you to interact with any source type (OT or IT), from any network, with one keyboard and one mouse.

## Make faster critical decisions

OpSpace offers instant access to your sources, including maps, floor-plans, camera footage, social media feeds, and more. This enables you to react faster to critical situations. You can personalize your workflow for maximum efficiency. For example, you can position essential sources in front of you and supporting information in your peripheral view. Upon login, the 'Follow me' function loads your personalized workspace – so, all your preferred applications and signals are loaded onto your pre-defined locations.



## Barco OpSpace highlights

- Visualize all critical sources in a single pixel space
- Easily install, maintain, and upgrade your workspace
- Task-oriented, intuitive user interface
- Ergonomically control all your content with just one keyboard and one mouse
- Quickly add more sources or systems to your workflow
- Secure access to any application across multiple security domains and networks.
- 'Follow me' function provides all user settings upon login

### Work in total peace of mind

Barco's OpSpace workspace solution was designed for use in control rooms and based on the highest standards for 24/7 operation in critical environments. OpSpace is easy to install, maintain and upgrade. It provides secure access to hosts across multiple security domains. OpSpace allows to present information from isolated networks - both IT and Operational networks - on the same pixel space. This way, you can maintain a higher level of security and prevent unauthorized access and data transfer.

### Flexible now and in the future

OpSpace is agnostic to source and network types and uses standard networking protocols. This makes adding new applications to your workflow painless. OpSpace guarantees clean modernization projects, allowing you to easily add new and legacy systems to your workspace environment.

# One integrated view and control

Barco OpSpace is the first personal workspace that enables the operator to be more efficient by offering an integrated view, control and interaction. All relevant information can be consulted and manipulated with just one mouse and keyboard. The operator is now in the center of the information – with all data – even from secure networks – within easy reach.



## All applications at hand

Barco's operator workspace solution integrates all applications into a single virtual workspace. With just one click, the operator can call any application into view – reducing navigation time and greatly improving operator efficiency in any situation. Whenever required, the operator can create a 'perspective' of different sources by composing multiple applications or signals into one logical view.

## Workstation redundancy

Upon login, the 'Follow me' function loads the operator's personalized workspace – so, all of the operator's preferred applications and signals are loaded onto their pre-defined locations, and he or she can start working immediately, without having to adjust settings.

## Flexible and scalable

OpSpace's architecture is designed for easy expansion. The system is scalable with regard to the number of required sources as well as the number of displays and amount of content on the operator's side.

## Flexible and extremely robust

Because OpSpace was designed for use in control rooms, the highest possible standards were used to allow 24/7 operation in critical environments. The stability, flexibility and robustness of the system have been tested rigorously to prevent any failure.

## Very intuitive user interface

In a crisis situation, time is of the essence. So all of the operator's tools must be easy to use, intuitive, and extremely responsive. To meet these requirements, OpSpace uses a very intuitive, task-oriented user interface, which can be mastered in no time and operated just as quickly.



## Security on every level

With OpSpace, Barco has found the perfect balance between security and fluid workflow. The system provides secure access to hosts across multiple security domains, integrating only at the presentation layer. In addition, via 'uni-directional encoders', operators are physically separated from the back-end systems that host the content. Granular access control (based on users and roles) by mission ensures that operators see only the data that are relevant to their job.

## The 'Work Area' concept

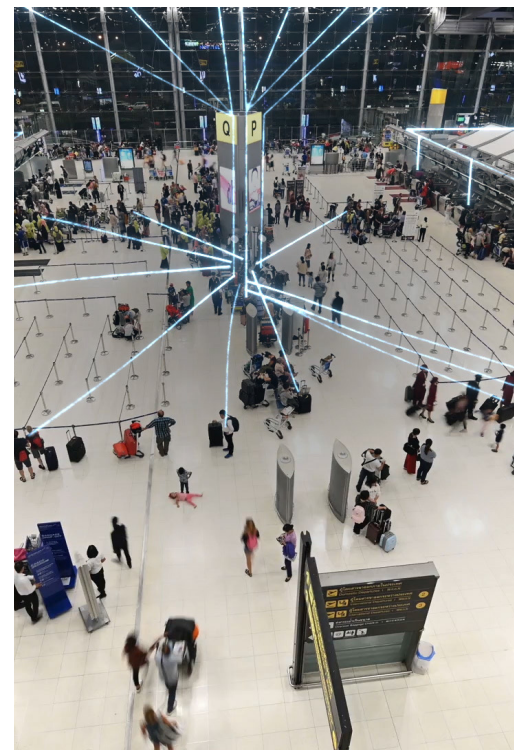
Instead of moving an operator physically to a workstation to view a certain application, the 'Work Area' concept allows any application – displayed on the one pixel-space – to be copied into a work area positioned in front of the operator. The operator can then interact with the application while maintaining an overview of the other signals still present in his or her peripheral vision. After the task is done, the operator can easily remove or replace the application in the work area.

## One keyboard and one mouse

Instead of using multiple workstations (each with a dedicated mouse and keyboard), OpSpace reduces desktop clutter to only one keyboard/mouse combination. This results in a much cleaner workspace, and avoids potential confusion while providing complete control in a comfortable way of working. Keyboard and mouse latency is, for all intents and purposes, not perceivable. Even the audio is fully integrated, and can be controlled per application or across the entire system.

# Optimally preventing disasters

The control room's primary purpose is to create an environment in which an operation can be monitored and guided perfectly. Whether distributing electricity, managing traffic, maintaining security or monitoring telecoms, the control room is always at the heart of the operation, keeping every situation under control. OpSpace creates the optimal operator environment to enable timely and effective decisions. The one pixel-space concept gives the operator a complete overview at a glance, enabling interaction with any connected application with a single mouse click.



## Situational awareness, any time

Timely and effective decisions can only be taken when the operator has a complete overview of the situation. But this is very difficult to achieve when information is divided over multiple workstations; and, with one application per monitor, the number of simultaneous views is limited to the number of screens in front of the operator. With OpSpace's integrated visualization space, the operator can monitor multiple sources per display and combine different

sources in one perspective for easy interaction.

In this way, the operator environment is optimized to maintain situational awareness and facilitate timely and effective decisions.

In addition, to help operators correlate signals better, OpSpace can create composed views of several signals or applications. These composed views can be saved as perspectives.



## Standard industry IP networking

The use of standard components has a number of important benefits – including cost-effectiveness and extended interoperability. Furthermore, the security of the components has been proven, and numerous third-party tools are available to prevent intrusion. So, OpSpace can interoperate with existing networks, with no need for specialized maintenance staff.



## Less equipment at the workspace

The bulk of OpSpace's hardware is located in the server room – away from the control room. This means that there is less equipment cluttering the desk, generating heat and noise, and taking up floor space. This arrangement also complies with security regulations that prescribe that hardware must be located in a separate room.

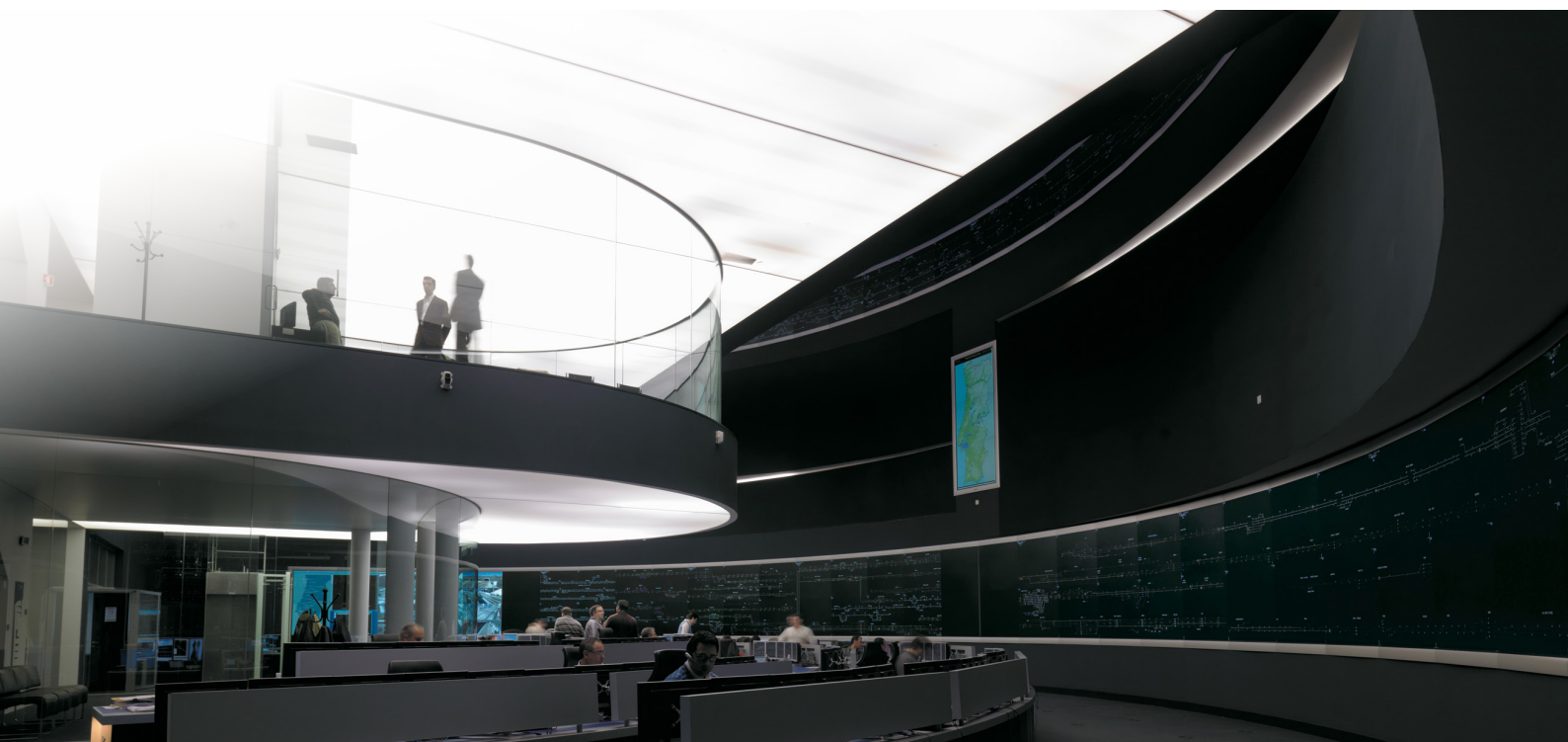
## On top of any game

Every control room monitors multiple possible crisis scenarios – and each requires a different response from the operator, with his or her preferred workspace layout. Because OpSpace allows users to pre-define all screen layouts and setups, operators have their preferred layout of the situation in seconds, saving precious time.

# From the control room experts

With years of expertise in providing innovative control rooms solutions, Barco is a trusted brand. Thanks to industry-leading after-sales services and project management – and our philosophy of developing universally back- and forward-compatible systems – Barco is your best choice now and in the future.

After listening to the specific needs of our global customer base, OpSpace was developed to create an operator workspace that is robust, flexible and scalable – providing operators with all the tools they need to perform their job as efficiently as possible.



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

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