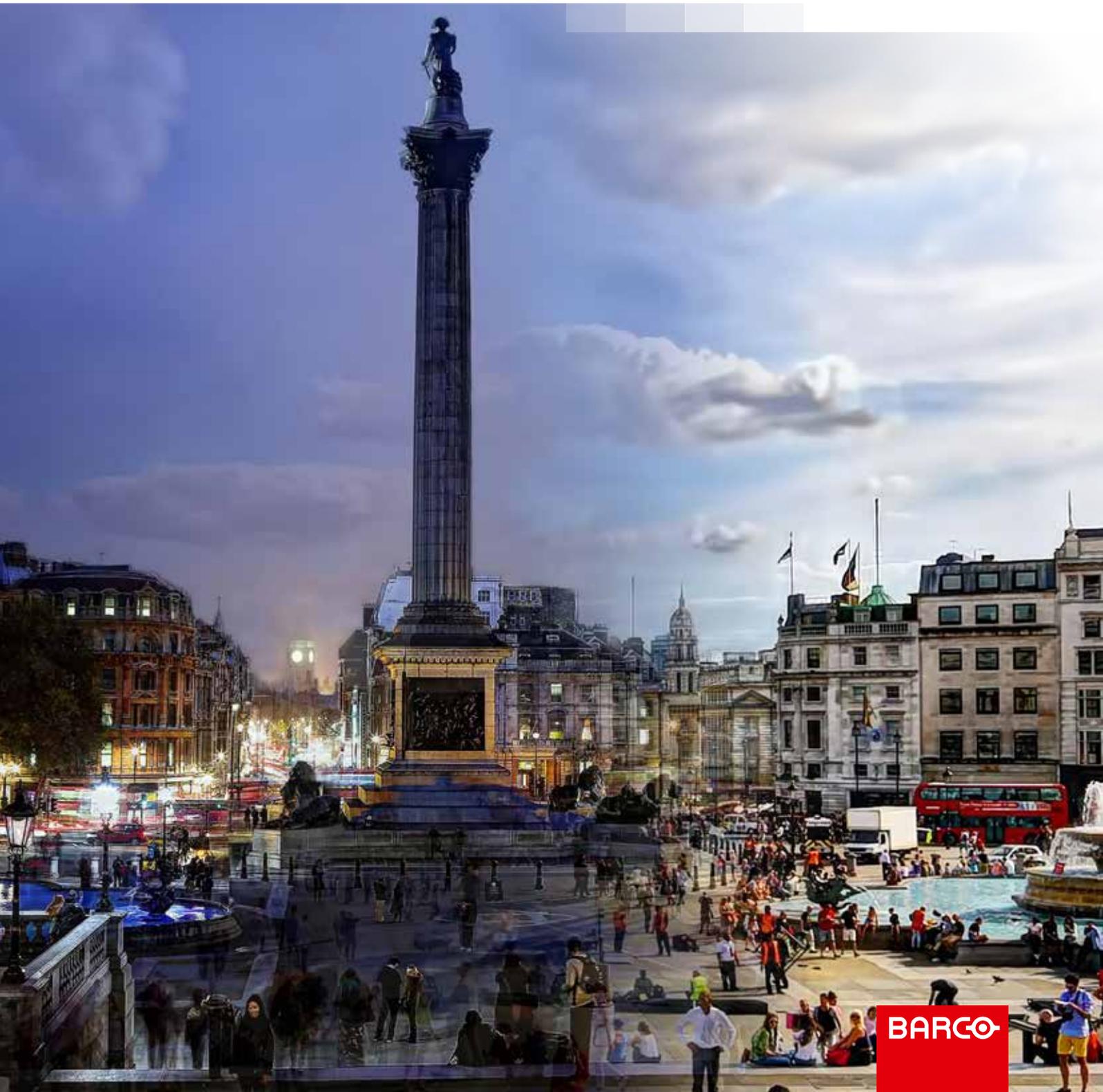


A night & day difference

RGB laser for 24/7 control rooms



All benefits of laser technology for 24/7 control rooms

The introduction of laser illumination has opened up new opportunities in professional visualization environments. Providing unseen brightness levels and vibrant colors, while offering a very low TCO, RGB laser has quickly become the illumination technology of choice in many environments, from digital cinema to events.

Now, Barco is bringing laser illumination to 24/7 control rooms – leveraging all of the laser know-how we've acquired in the digital cinema world to power up a brand-new rear-projection video wall series. The RGB laser video walls for 24/7 control rooms – a 10th generation video wall from market leader Barco – lifts rear-projection video walls to a whole new level for critical infrastructure markets.





Benefits at a glance:

- 2x more brightness than mainstream LED-lit rear-projection video walls
- More than 11 years of uninterrupted operation in 24/7 mode
- Unmatched colors, focus, and contrast levels
- 25% less power consumption at higher brightness than LED-lit video walls
- 'Library' noise level – silent like never before
- Multiple levels of redundancy for ultimate peace of mind
- Alignment effort at set-up reduced by 50%, thanks to motorized 7-axis alignment

Unprecedented image quality

Laser-sharp images, vibrant colors, and unprecedented brightness. The images produced by Barco's RGB laser video wall series for 24/7 control rooms are on a wholly new level. Not only can operators see every detail, but the control room can operate under any lighting conditions – enabling you to open those curtains and finally bring light into that dark control room!



Automatic calibration

The latest generation Barco Sense X automatic calibration technology is also integrated into this new generation of RGB laser illuminated video walls. This technology allows highly precise and automated calibration of colors, brightness and gray scale levels, and makes sure the video wall is calibrated at all times. What's more, the system also compares – and adjusts – the settings of all of the modules in the video wall, which means the entire canvas is always perfectly balanced!

'Library' sound level

Thanks to the inherently very low heat dissipation, there are only 2 low-noise fans in the cubes – so operation is extremely quiet. In fact, the noise levels are so low that they can be compared to those in a library (around 20 dB).

Suited for all light conditions

With 2x more brightness than mainstream LED-lit video walls the RGB laser series eliminates any brightness issues earlier video walls might have had. Because the high luminance allows operating under daylight conditions, control rooms no longer need to be kept dark – which improves operator working conditions immensely!



Colors that make a difference

Barco's rear-projection video walls have been leading the market in color accuracy for years. The RGB laser series takes this a step further by delivering colors that are more vibrant than ever before, thanks to an increased color gamut than previous generation products. All nuances are now clearly distinguishable, so that nothing is misinterpreted and situational awareness is enhanced. Because there is no color break-up at any time, the clear images that operators need are guaranteed.

The perfect choice for 3D

Previous generations of video walls had trouble accommodating 3D stereo content, because the 3D glasses absorbed too much of the brightness. The RGB laser video walls are 2 times brighter, making them fully suited for the increasingly popular virtual reality (VR) content. So you're prepared for the future! As an additional application option, thanks to their limited depth, these rear-projection video walls are perfect for use now in VR environments like Caves.

Razor-sharp contrast

Thanks to the enhanced contrast of laser projection, images are always sharper, more focused and minutely detailed. So operators can see all details more distinctly – and react faster accordingly.

Lowering total cost of ownership

Barco's unique solution offering wows operators, users and customers alike. Built with a commitment to exceed expectations from all stakeholders, including operators, owners, and service teams, the solution offers the best in class features, with the lowest Total Cost of Ownership (TCO). Coupled with an upgrade program, this RGB laser product from Barco offers benefits that are unmatched in the industry.



Highest level of redundancy of critical components

Although the RGB laser video walls for 24/7 control rooms are extremely reliable, we really don't want to leave anything to chance. That's why we provide redundancy for the most critical components: the light sources – including laser diodes, drivers and inputs – and, optionally, the power supplies as well. And because these power units can be placed remotely (in a separate server room, for example), they can be serviced without interrupting operations.



Over 11 years of uninterrupted 24/7 operation

When Barco introduced its first generation of LED-lit rear-projection video walls, with a lifetime of 60,000 hours, people were amazed. Now we're taking another giant leap forward with the RGB laser video walls for 24/7 control rooms. In Eco mode, the laser light sources have a lifetime of at least 100,000 hours. That's 11.5 years under continuous 24/7 operation!



3x more energy-efficient than mainstream LED-lit video walls

Barco's RGB laser video walls for 24/7 control rooms are extremely efficient – even with regard to energy consumption. Using 25% less power at higher brightness levels than conventional video walls, and a wall plug energy efficiency of 3x Lumens/Watt, this innovative series is not only good for the energy bill, but for the environment too!



Fully motorized 7-axis alignment, remote control

Barco's RGB laser video wall for 24/7 control rooms has a fully motorized engine. Installers and maintenance staff never need to open the individual modules to bring the wall into perfect alignment. Using a web interface, the cubes can all be remotely aligned – including keystone correction – by a single technician standing in front of the wall. Far more efficient, more reliable, and less time-consuming, it is estimated that this new technology can save 50% of alignment efforts during set-up. What's more, the optional front-access makes maintenance even easier – another way to save time.

Lowest maintenance needs ever

A regular maintenance check-up is the best guarantee to keep your video wall up and running without any downtime. However, Barco's RGB laser video wall series has the lowest maintenance needs ever seen in the industry. Thanks to the video wall module's absence of a color wheel, automatic calibration, high level of redundancy, and extremely reliable light source, there's no need to plan unnecessary service interruptions. Which means more uptime – and lower costs!

Full color control without a rotating color wheel

Unlike laser-phosphor technology used by competitors and in non-24/7 meeting rooms, Barco's RGB laser video walls don't need a color wheel to operate. Because each color can be controlled separately (and is not dependent on the segment of a phosphor wheel), you can control color like never before and never see color breakups. Furthermore, the absence of a rotating color wheel (a common cause of failure) also makes the wall more reliable and needs less maintenance.



A 100% Barco product

Barco's RGB laser video wall for 24/7 control rooms is a 100% Barco product. All components are completely designed and validated in-house. This not only gives us total control over the quality of every component, but we can also guarantee backwards compatibility and serviceability for many years to come. So, as there's no danger that a component will become unavailable in a few years' time, your investment is fully safeguarded.

With experience in large video walls spanning more than 2 decades, Barco has both in-depth knowledge of visualization techniques and a clear understanding of the specific needs of control rooms: reliability, predictability, and cost-effectiveness, over a long time period. All of this knowledge is bundled in our visualization solutions – which, in addition to large video walls, also include controllers, collaborative network visualization systems, and operator workspaces.



Brighter



Eco-friendly



Unmatched colors



Highest reliability



Minimal TCO

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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. All specs mentioned in this brochure are in accordance with ISO 21118 standards.

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