The world in every detail

Broadcast visualization solutions

BARCO

Images taken seriously

Offering the audience an ultimate viewing experience: that is the ambition of the broadcasting industry. Technology and innovation play a vital role in that. Backdrops and other background visualization contribute significantly to the broadcasters' perception of quality.

In recent years, a number of important visual innovations have caught the attention of the news and television studios. Direct satellite connections, social media, audience feedback and polling are a few examples of how technology is impacting broadcasts.

The visualization technology in the studio has undergone similar dramatic changes – although probably less visible. In rear-projection cubes, lamps have been replaced by LED (resulting in a much longer lifetime) or laser illumination (boosting brightness). With regard to tiled LCDs, the bezels have become a lot thinner, the resolution has increased, and a number of innovations have lengthened lifetime. For presentation switchers and controllers, we have the introduction of 4K resolution, and a wealth of new, high-quality video standards. In short, uptime has been maximized, and image quality optimized.

What Barco brings

With decades of experience in broadcast visualization, Barco is a pioneer in offering backdrops and controllers to the market. The Barco brand name has become synonymous with excellent image quality, the highest reliability, and great visual performance over the complete backdrop.

Screens that don't fail

Because we know that a TV producer's worst nightmare is a failing backdrop during a live broadcast, we make sure the reliability of our displays is the highest in the market. Not only do we use components of the highest quality, but we also provide back-up systems for the critical components. This high level of redundancy gives the technical staff the peace of mind to focus on the broadcast, not the backdrop.

Stable colors and brightness, over the complete canvas

The overall uniformity of the image is crucial for a backdrop. This can be an issue - especially when using rear-projection cubes and LCD panels - because each display unit ages at its own rate. Because even the slightest unbalance in brightness or color is visible immediately, it's essential that the complete canvas be perfectly calibrated. Therefore, Barco has developed its automatic color and brightness calibration systems Sense X (for LCD screens) and Sense[6] (for rear-projection modules). These unique systems measure all parameters continuously to balance the image across all of the individual panels perfectly.

Flexibility in settings

For backdrops, no single setting fits all applications. That's why we make both the brightness and the whitepoint settings adjustable, upon installation and over time as a studio's set-up evolves.

Making it easy for the studio designer

Barco's visualization systems are not only visually stunning. They also offer studio designers the greatest flexibility. Detailed AutoCAD drawings of all systems and components make it easy for designers to integrate the visualization solution in their designs. Furthermore, the Blackbead screens (optimized for the broadcast market) and excellent angular screen performance, make it possible to integrate the backdrop in more positions in the studio.

Barco's benefits

- Stability with auto-calibration
- Redundancy
- Adjustable brightness
- Broad and finely tunable white point setting
- Adjustable color palette

Our offering

Every backdrop project has different requirements, in terms of physical sizes, brightness, seams, resolution, and budget. That's why Barco has an extensive portfolio of backdrop visualization solutions. And we can offer our customers not only a wide selection of sizes, but of technologies as well. Each technology has its specific benefits, but all share the Barco quality label.

Rear-projection video walls

Ultra-reliable, great image quality, very flexible and with a low TCO: these are the key benefits of Barco's rear-projection video wall modules in a nutshell. With an auto-calibration system that has no match in the industry, the highest level of redundancy, and screens optimized for broadcasting, our rear-projection video wall modules have been the standard in television backdrops for years. The long list of impressive references testifies to this.

· High brightness, adjustable
  (200-300 cd/m²)
· Narrowest bezels
· High contrast using optimized
  Blackbead screen
· Loop-through
· Redundant video input
· Redundant LED illumination
· Sense⁶ automatic uniformity
  calibration system
· Broad whitepoint setting
  (3000K-6000K)
· 35° half gain angle

High-definition LEDs

For ultimate brightness, Barco offers its unsurpassed LED walls. With an extremely high resolution (a minimal pixel pitch of 1.6mm), these LED walls are perfect for use in backdrop applications. Because these LEDs are dimmable while maintaining color depth (unique in the market), they are easy to integrate in broadcast studios.

· LED output dimmable while
  maintaining color depth
· 1.6mm, 1.9mm, or 2.7mm pixel pitch
· No seams
· HD inputs scaled up for full
  screen
· Back-up video chain
· Infinipics platform as driver for the LED
  wall

Seamless

Using either a single rear-projector or Barco's advanced blending mechanisms, we offer the possibility to create a large seamless canvas. Offering the same benefits of our rear-projection modules without the seams, this technology makes backdrops come out even more spectacular.

Tiled LCD

Narrow-bezel tiled LCD video walls offer great image quality, high brightness, and an advantageous price tag. Barco has optimized this technology for use in critical environments like television studios, by making them ultra-reliable in terms of MTBF and image quality. With auto-calibration, redundant video input and power supply, and ultra-narrow seams (3.5 mm), Barco's tile LCD video walls have everything it takes to star in a TV show.

· Ultra-narrow bezels (3.5 mm)
· Redundant video chain
· Automatic color and brightness calibration
· Broad whitepoint setting (3000K, 6000K)
· Redundant power supply option

Full show in a single box

Barco's presentation switcher systems provide complete show control, including source selection, advanced windowing features, seamless switching, video effects and integrated control for professional video presentations.

· Master and monitor broadcasts from a PC
· Use dedicated event controller for instant access to crucial functionalities
· Drive multiple single and blended destinations
· Prepare events upfront or master live
· Digital Video Effects on 16 mixing layers (HD)
· Up to 32 inputs and 12 outputs
· Link multiple boxes for higher input/ output or mixing layer capacity
· Genlocked operation with industry's smallest frame delay
· Highest quality true 4K scaling
· Integrated multi-viewer for confidence monitoring

From the professional visualization experts

Barco designs, manufactures and markets innovative hardware 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 and services, 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. Highlighing potential congestion points, Barco's solutions help coordinate emergency responses more efficiently.

Barco nv
President Kennedypark 35
8500 Kortrijk - Belgium
Tel. +32 56 36 89 70

BARCO

www.barco.com

Visibly yours