iStudio

Managed monitoring for broadcast & distribution

INTELLIGENT
INNOVATIVE
INTEGRATED
INTERACTIVE

BARCO
100 years
All-in-one high-density managed monitoring

Barco’s iStudio is currently the most advanced all-in-one solution for managed monitoring. It consists of a high-quality display with rear-screen projection, a graphic controller, and Web-based operating software. One projection module is capable of simultaneously displaying multiple analog and digital video, embedded audio and computer images.

Two or more modules can be combined into a huge display wall to monitor hundreds of signals. iStudio acts as a single point of control and includes advanced warning capabilities.

With iStudio, operators are no longer confined to a limited number of monitors. They can now size and move a virtual monitor anywhere on the screen for maximum viewing. No space is wasted for window or monitor borders. This enables display of a higher number of video sources in the same amount of space and with the same number of operators.
Business value

- All-in-one solution
- Flexible
- Grows with your needs
- Upgrade capability
- Fast installation
- Simplified cabling
- Space-saving
- Reduced operational costs
- Easy system integration
- Low cost of ownership
- Improved operators' efficiency
- High reliability
For all applications

The number of images that need to be simultaneously viewed and controlled in studios, master control centers, playout centers, uplink centers and downlink monitoring is increasing drastically. That is why the compactness and flexibility of Barco’s iSTUDIO monitoring solution is so highly appreciated in today’s broadcast and distribution business.

- Designed for 24/7 operation
- Easy, cost-effective maintenance
- Front or rear access to projection unit
- Incorporates dual lamp
- Lamp replacement in less than a minute
- Average lamp lifetime of 8000 hours in 24/7 operation
- Hot-swappable power supply in graphic controller unit
Barco is well aware that a control center represents the heart of the broadcasting business.

Hundreds of mission critical installations not only in broadcast but also in nuclear power plants, oil rigs, and in 911 emergency centers, prove that Barco knows no detail to chance.

iSTUDIO’s design makes it a very reliable system with a quality of service you can count on 24 hours a day, 7 days a week.

The iMax controller has hot-swappable power supplies and operates diskless.

The projection modules incorporate lamps with a very long lifetime and are replaced in less than a minute. In addition, Barco has a range of dual-lamp projection modules based on digital visualization technologies (Poly-Silicon and DLP®). A built-in second lamp will make you rely for 100% on the availability of your display wall.

Its software allows you to run the lamp in hot or cold stand-by, it keeps track of the 2 lamp life times and detects lamp failure. Barco’s iMax is unique in that it offers constant display quality even when switching from one lamp to the other. Moreover, Barco’s lamp leasing program allows you to efficiently control operational costs.

Opt for reliability
Excellent image quality

Irrespective of the input combination, iSTUDIO always guarantees perfectly displayed, flicker-free and steady images. The images are displayed on a high-contrast screen for wide viewing angles.
Whether on- or off-line, **editors and post production staff** need to view multiple sources simultaneously, preferably within a limited viewing field. **Directors** also find iSTUDIO especially appealing for its flexibility and the way it adjusts to their preferred working environment.

At live events, **sports journalists** appreciate being able to see several views of the action on one display. Combining all camera views on a single screen ensures more accurate, exciting, and up-to-date coverage of events. This is why iSTUDIO is also regarded as the ideal solution for **Outside Broadcast (OB) vans**. Space, weight and power consumption are primary considerations. iSTUDIO provides considerable savings in all of these areas.

---

**Broadcast monitoring**

**Be more flexible!**

The layout of the display wall can easily be adapted from any authorized PC that is linked to the LAN. All the layouts are created, saved, retrieved, and adapted by means of a Java application running in a standard Web-browser. You configure and re-configure your display wall according to your requirements, without moving a monitor. Sources from the list of available sources, add a clock, tally indicators, and source identifiers, drag and drop, enlarge and reduce the windows until the layout satisfies you, and publish it on the display wall.

---

**Exceptional functionality**

Use iSTUDIO for the recording of programs in studios or OB-vans, or for the routing of several feeds in and from studios in master and traffic control. iSTUDIO provides unique and powerful functionalities beyond that of traditional studio monitors.

For instant layout switching, the iSTUDIO concept is unparalleled. For adjustment of camera parameters, the output from thirty cameras can be displayed on one 50, 67 or 84" display, providing an easy, reliable comparison.
Let iSTUDIO be the watchdog of your network!

Uninterrupted monitoring of signal presence, and alarm generation in the event of any loss of signal, have become increasingly important with the ever-growing number of channels brought to us by Digital TV.

In addition to monitoring, the iSTUDIO’s management capability allows the installation of customized automation tasks to interact with existing video routing systems, and thus perform automatic restoration of services in the event of device or transmission failure.

Typical applications for video source monitoring & management, are digital uplink centers and video retransmission stations.

Managed broadcast monitoring for 24/7 uptime

To simplify problem analysis and quicker incident correction, Barco’s iSTUDIO introduces a revolutionary new concept: managed broadcast monitoring.

Barco’s advanced warning features are highly valued. Its graphic controller Hydra can detect fault conditions on the incoming feeds — both video and audio — and notify the operator of these errors in a variety of ways.

Hydra then communicates the alarm to network management systems via SNMP traps or XML.

If an alarm is monitored on screen, the operator can detect the failure and take the necessary actions.

Hydra can monitor an alarm on screen, log it to a file, or allow the operator to confirm it in the alarm list provided by the user interface.

Monitoring of VBI info such as closed captioning, V-chip, WSS and XDS is all integrated in the Hydra controller.

Managed broadcast monitoring supports your quality of service 24/7!

Distribution monitoring
Typical combined video/data display content for distribution monitoring, facilitating early fault detection in the headend and guaranteeing ultimate quality of service.
Digital or analog inputs

iStudio can display a wide range of source types, covering practically all the standards commonly required by the industry. These include analog and digital video on PAL, SECAM and NTSC, HD-SDI and analog RGB-HD, in 4:3 or 16:9 formats and computer images through analog RGB or digital DVI (VGA, SVGA, XGA, SXGA, UXGA). Each image can be up-scaled to the full output resolution ranging from SVGA up to SXGA.

Any additional information, such as computer-generated objects, digital or analog clocks, animated logos, and counters as well as tally indicators, source identifications, and audiometers, is flawlessly displayed. You can position any content exactly where you want: next to the video image, or overlaid on it in transparent mode.

Ultimate flexibility

Several modules can be combined to form a huge display wall so you can monitor dozens of images.
Open protocol

iStudio has been designed to communicate and integrate with external devices such as control devices, automation systems, routers, operation support systems, etc. The open XML based interface allows easy integration into most common management and automation systems.

Audio monitoring

iStudio offers the possibility of real-time calibrated in-picture audio metering. It handles embedded audio for 30 video channels (SDI) with each 16 audio channels/SDI inputs or up to 112 external audio channels, analog or AES/EBU.

Main features include on-screen peak meters, phase and loudness meters, as well as full customization of bar size, orientation, position and colors. All popular scales and ballistics can be selected.

With just a click you can add dual tally displays, scene identifications, audiometers and alert notifications. Analog and digital video in 4:3 or 16:9 formats can all be combined with computer data such as clocks, counters and logos.
With a worldwide market share of over 50%, Barco Control Rooms has become the industry standard in the field of monitoring solutions for Control & Operation Centers in telecom, traffic, surveillance, public utilities, broadcasting, finance and service providing companies. Barco Control Rooms is renowned for its flexible, market-specific approach, successfully implemented in over a thousand control rooms worldwide.

Fully committed to quality, Barco Control Rooms offers full technical support as well as on-site training. With its head offices in Belgium and Germany, Barco Control Rooms is represented in more than 30 countries across the globe. With a yearly R&D effort of 10% of its turnover, Barco Control Rooms ensures it remains at the forefront of technology.

www.barcocontrolrooms.com