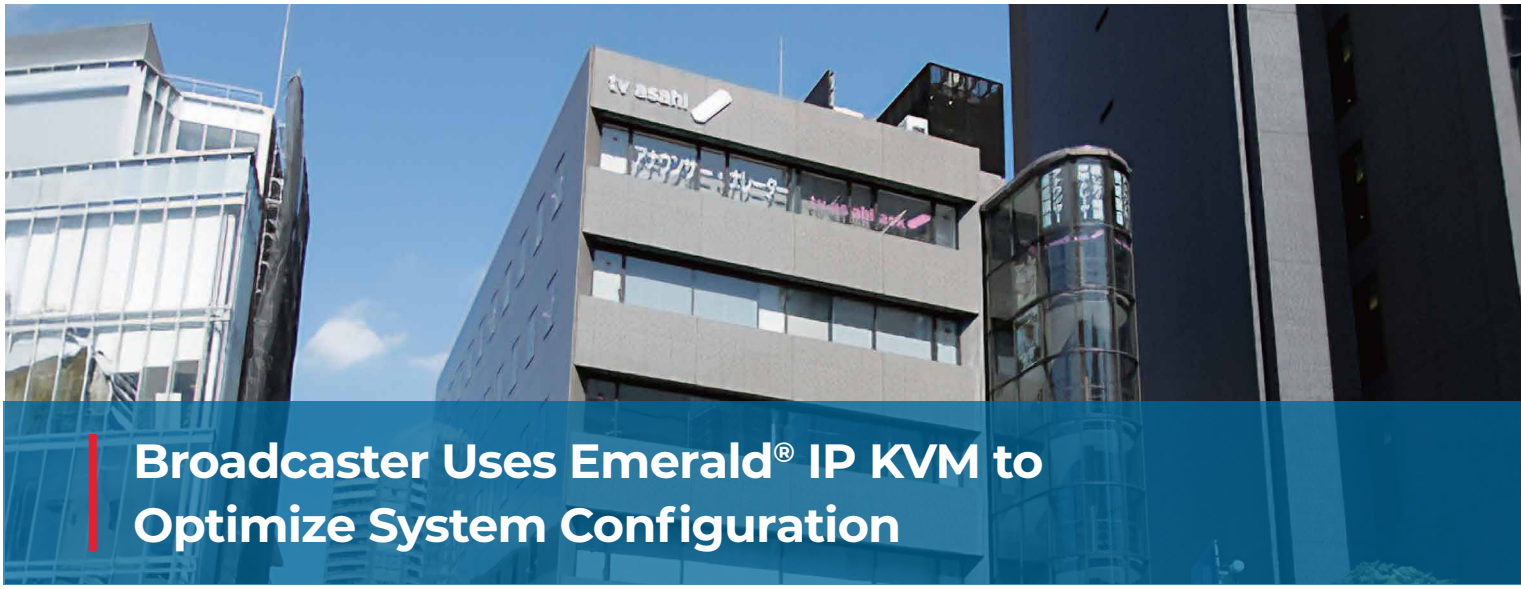
BLACK BOX

CASE STUDY
BROADCAST



Broadcaster Uses Emerald® IP KVM to Optimize System Configuration

- **Industry:** Broadcast
- **Region:** Japan
- **Solution:** IP KVM
- **Product:** Emerald IP KVM

TV Asahi Service Co., Ltd. achieves both space saving and improved operability onsite through simultaneous operation and monitoring of multiple systems.

BENEFITS

- Maintains responsiveness for quick reporting operations while consolidating equipment on a separate floor, achieving space savings and on-site efficiency
- Displays multiple systems on one screen allowing simultaneous operation and visibility, improving work efficiency.
- Allows operation to continue even in the event of a failure ensures stable operation of the entire system

THE COMPANY:

TV Asahi Services Corporation

Broadcasting equipment sales, leasing and rental, systems business, content business, advertising business, insurance agency business, commercial business, etc.

End Users: TV Asahi Corporation, Commercial TV Station



Operation console on the news floor. Multiple system windows are displayed on one monitor, allowing simultaneous operation. This saves space while improving visibility.

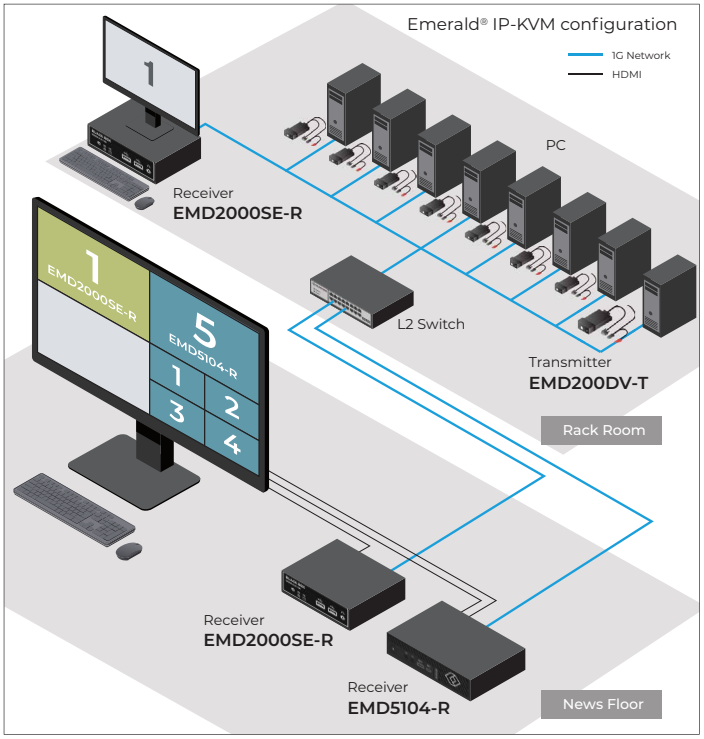
Space-saving operation desk and improved work efficiency

TV Asahi Service Corporation operates multiple breaking news systems. Previously, there were multiple dedicated systems on the control console in the news floor. There were PCs, keyboards, mice, and equipment and cables all over the desk. There were calls from the field for a review of the equipment layout and operating environment. The new system must allow efficient display and operation of multiple backup systems.

Black Box considered the requirements of the required system configuration. A model that meets the needs of the site was selected and tested in advance. Through this model, remote control and multi-view display could be achieved at the same time, and it was deemed to be a useful tool for future operations.

Flexible Black Box IP KVM solution adopting the “Emerald” ecosystem.

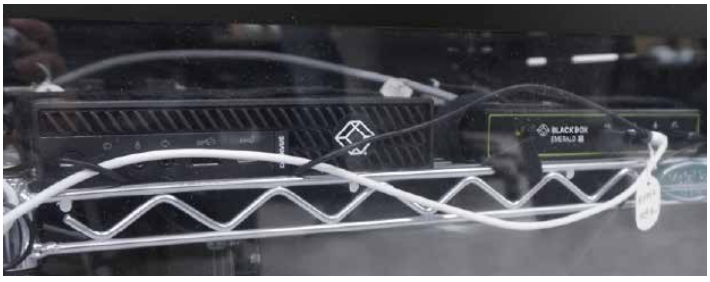
With this installation, the system equipment was moved to a device room on a different floor. The console was re-configured to only have the minimum number of monitors and control devices needed. Furthermore, the multi-view function allows multiple systems to be displayed on a limited number of screens and it is now possible to display and operate simultaneously on a single screen.



Supports multiview display and redundant configuration



The EMD2000SE-R receiver installed in the rack room. It is mainly used for local operations such as maintenance work and setting changes.



The Emerald DESKVUE (EMD5104-R) and Emerald SE (EMD2000SE-R) receivers are installed in a rack under the control desk on the news floor. They are part of the operational configuration that supports both multi-view display and individual switching operation.

The system used consisted of a Zero U-type transmitter for each source PC, a multisource, multiview Emerald DESKVUE receiver, and a single monitor Emerald SE backup receiver. The system enabled remote control of the back-racked PCs from the news floor, while simultaneously displaying up to five system windows on a single monitor. The system's requirements for implementation were clear:

1) Real-time updates even using split screen layouts;

2) High image quality;

3) Flexible monitor layout configuration; and

4) Redundancy to ensure continued operation even in the event of equipment failure.

Reasons for Introducing the Emerald Series and Future Developments

The preliminary testing confirmed that DESKVUE met all of these requirements. There was no delay or degradation in image quality, and the title bar, including the name of the connection destination, displayed on each split screen could be hidden. The ability to freely select and operate each window display was also a major plus. Furthermore, the ability to switch to Emerald SE in the event of a failure and continue operation was also highly praised.

There are considerations with a view to introducing the Emerald series further. This structure can be applied to other departments, and can be expanded to address similar issues.



EMD5104-R
IP-KVM Multisource, Multiview Receiver



EMD2000SE-R
IP KVM HD Single-Monitor Receiver



EMD200DV-T
IP KVM ZeroU Transmitter

More about Emerald:
http://blackbox.com/Emerald