

BLACK BOX

Utilities

The current worldwide demand for electricity, water, and gas is unprecedented. Utility companies must meet this growing need for people, organizations, and entire nations. Companies require real-time access to multiple data sources and critical systems to efficiently manage plant operations. KVM and Video Wall technologies are essential solutions for these challenges.

Black Box can provide you with stable, redundant, reliable, and high-performance Video Wall and KVM technologies to keep your utilities control room running reliably, efficiently, and trouble-free.

Solutions



KVM Signal Switching and Extension



Real-Time Data Visualization



Redundant and Remote Networking



Room Control and Environmental Monitoring (IoT)

Case Study: Enabling Remote Control for Electricity Giant

A Spanish gas and electricity distributor needed to implement a control room to operate its power plants remotely without losing video quality, while maintaining the existing computers in their original location. Using fiber optic cabling was mandatory to connect everything long distances and avoid delays or loss of resolution.

Black Box recommended the KVM Extender to extend a console via IP over about 100 km. The Extender System proved to be the most flexible, future-proof solution because it can easily adapt to future changes and different connectivity needs inherent with using multiple interfaces.

This project has enabled the distributor to simplify their remote control room process and meets its strict quality stipulations. The customer is pleased with the resulting control room solution.

Featured Products



Quad Multiviewer

Control four servers from one keyboard and mouse. Display video from those four servers on one big monitor all at the same moment in real-time or on cascaded monitors.



ControlBridge® Multisystem Control

Easily connect and control everything in your control room, including room conditions, through one platform. Or change your complete control room setup with just one click. Simplify workflows with configurations custom-made for you.



MCX Next-Generation AV over IP

Distribute AV content with no source-to-display latency over IP. Combine the contents of multiple sources and display them on limitless screens, or create a video wall tailored to your needs.



Freedom KM Switches

Freedom is ideal in command and control applications. Not only can users switch between several computers just by moving the mouse, but they can also simultaneously access a mix of USB peripherals, including high-speed USB 2.0 devices.



Emerald® KVM over IP

Serves as an infinitely scalable universal access system, giving users the flexibility to connect to physical and virtual machines, along with anywhere, anytime IP access using extremely low bandwidth. Full 4K/HD video interoperability, 1-touch control room setups, and a high degree of automation through Emerald's APIs, give users valuable flexibility and ease of use.



Fallback Power Switch

The Fallback Power Switch is designed to provide reliable and safe power fallback for single power devices. Choose between automated switching between primary and secondary power circuits, manual AB switches or ganged switches



AlertWerks AW3000

This IoT Gateway is unique in the market with virtualization of sensor data working on LoRaWAN, Wi-Fi® and BLE by using automation, visualization and analytics. Through its fast recognition and sending out early alerts, failures can be prevented. The product also seamlessly integrates with KVM and AV solutions from Black Box such as Emerald and MCX.



DKM Proprietary KVM Matrix Switching

DKM is a proprietary (non-IP) high-performance KVM matrix switching platform that allows cross-point switching and extension of up to 4K video, peripheral, audio, and serial signals. The multilevel redundancy of the DKM family offers high reliability for 24/7 operation in critical environments.