

Black Box Command & Control Solutions

Helping customers securely connect, access, share, visualize, and control critical systems from desktop workstations to command center environments.

KVM

KVM Switches »

- Control 2-16 computers from a single user console
- Needs intuitive instant switching between systems

Secure KVM Switches »

- Control 2-16 systems on different security levels from a single user console
- Needs cybersecure data isolation, USB limited to keyboard/mouse, optional card reader authentication

KVM Console Trays »

- Control multiple computers in the data center
- Needs rack-mounted console with full keyboard, monitor, mouse in 1RU

KVM Extenders »

- Control one computer located away from the user console

Spotlight KVX KVM Extenders

- Extend up to 100m over copper or multiple kilometers over fiber using SFPs
- Select from 4K HDMI, 4K DisplayPort™, HD DVI, or a mix
- Extremely attractive price/performance ratio



High-Performance KVM »

- Multiple users need access to multiple remote systems, control & command room connectivity
- Consult your Black Box Account Manager

Spotlight Award-winning Emerald® IP-KVM

- Infinitely scalable IP-based KVM platform
- Instant switching with exceptionally low bandwidth usage
- Built for 24/7 operation with no single point of failure
- Comprehensive management and advanced security features
- Advanced video processing: Multi-Monitor, MultiView, integrated video wall control



AV

AV Switches » Connect one or multiple sources to multiple displays

AV Splitters » Connect one source to multiple displays

AV Extenders » Connect one source to a remote display

AV-over-IP » Connect one or multiple sources to multiple displays

Video Wall Control » Display one or multiple sources on a video wall

Control Panels » Programmable touch control of AV-, Room-, and KVM systems

Spotlight MediaCento AV over IP »

- Send HD/4K HDMI over a 1G network to unlimited screens or a video wall
- Create an IP-based AV matrix and video wall processor
- Lossless compression and ultra-low latency prevents image delays on the screens



Networking

Ethernet Switches » Unmanaged, managed, Power over Ethernet, harsh environments

Media Converters » Expand the reach of a network beyond 100m over fiber cabling

Console & Device Servers » Access and reboot IT-devices when the network is down

USB Connectivity » Cables, Hubs, and access to remote USB devices using USB extenders

Copper Cabling » High quality bulk and patch cables for horizontal and vertical runs, patch panels, and adapters

Fiber Cabling » Patch-, bulk and distribution strands, multimode or single mode

SFP Transceivers » Adapt network devices with SFP-Slots to the required cable media

Power » Power Distribution Units, Surge Protection, power cords

IoT

- **Monitor environment conditions** that could harm your IT-devices
- Collect sensor data like temperature, humidity, water, open doors, define rules for predictive maintenance

Black Box Command & Control Solutions

Broadcast & Entertainment >



- IP KVM/AV for Live-, Remote-, & Hybrid Productions, Master Control Rooms, Studio Connectivity
- Multiview Displays & Video Wall Control
- Virtual Machine Access & VM Sharing
- 4K Signal Extension for Post-Production
- Touch Panel Control Systems

Industrial, Manufacturing >



- Control Rooms: Process Control & Automation, Virtual Machine Integration
- Remote System Access and Switching
- AV Distribution and Video Wall Control
- Hardened Network Switches and Media Converters
- Fiber-to-the-Desk
- Conditional Asset Monitoring

Transportation >



- Control & Visualization for ATCs (air), ROCs (rail), Smart Traffic (road), and Maritime Applications
- Secure Remote Multi-system & Virtual Machine Access for command centers
- Real-time Data Visualization
- Multisite Monitoring & Control
- Video Wall Processing
- Touch-Panel Control, Automation Systems, Conditional Monitoring

Healthcare >



- IP-based KVM and AV Campus-Connectivity
- Medical Image Processing and Capturing, Patient Monitoring
- Secure Patient Data Access
- High-Density Video Connectivity for Robots & ORs
- Network Infrastructure & Cables

Defense >



- Cybersecure Operation Infrastructure for Command Rooms
- Real-time Visualization & Efficient Operator Workspaces
- AI-ready Infrastructures
- NIAP-certified Switching between Multi-classification Network from a Single Console
- High-quality Copper & Fiber Cabling, Fiber-to-the-Desk
- Network Extension & Connectivity

SLED/Public Services >



- Cybersecure Matrix Switching for Command Centers
- Video Wall Control & Multiview Desktops
- Instant System Switching with a Mouse Move
- Access Physical & Virtual Machines, Camera Feeds, & Cloud Applications from one console
- Touch-Screen Control & Automation Systems
- Fiber-Optic Cabling & Fiber-to-the-Desk

Utilities, Power, Oil & Gas >



- IP KVM/AV for Control Room Connectivity
- Multisite Monitoring and Control, Access to Unmanned Remote Locations
- Real-Time Data Visualization & Video Wall Control
- Virtual Machine Access & VM sharing
- Disaster Recovery/Backup Switching
- Conditional Monitoring & Predictive Maintenance
- Networking Switches, Extenders, & Console Servers
- Fiber Cabling

Data Centers >



- Secure Remote Access & Matrix Switching between Computers
- Video Wall Control & Multiview Desktops
- Secure Out-of-Band-Management for Network devices
- Automation Systems & Conditional Monitoring
- Server Maintenance via Rack-mounted Console Trays
- IT-Infrastructure from passive to active components

