MultiPoint Control Room Management System (MCMS)
Enterprise Level Control and Collaboration

Any Source, Any Operator, Any Site – One Intuitive Interface

Local / remote resources and operators
Resource integration without custom software
Secure multi-user KVM
Unified control of applications
Drag and drop simplicity
Overview

Building on its MultiPoint® Control Room Management System (MCMS), RGB Spectrum’s Enterprise MCMS is a powerful control room solution that combines real-time display with multi-user KVM over local or wide area networks.

Enterprise MCMS is an innovative hardware and software platform that integrates disparate systems, both local and remote, without custom software. Enterprise MCMS can even consolidate multiple control rooms, to extend system monitoring and control around the globe.

Designed to operate with 24/7 reliability, the secure, collaborative features of Enterprise MCMS make it ideal for use in a range of mission-critical applications.

Advanced Technology

Video Desktop Adapter (VDA): ANY SOURCE, ANY OPERATOR, ANY SITE

Enterprise MCMS incorporates proprietary Video Desktop Adapter (VDA) remote desktop technology. This innovative technology adds powerful remote video and desktop control capabilities, extending collaboration capabilities worldwide.

VDA devices utilize adaptive compression technology to provide excellent high motion video as well as clear text and graphics transmission with low latency. The VDA is also highly secure, using AES-256 and NSA Suite B cryptography to ensure the highest level of security over public networks.
Hybrid Architecture

Enterprise MCMS features a hybrid architecture that combines the signal quality of DVI with the flexibility and security of IP video. Using a dedicated high-speed AV network built on RGB Spectrum’s high capacity switching platforms, Enterprise MCMS provides high-resolution signal transmission and full frame rate display performance with only minimal network resources.

Keyboard and mouse control commands are routed over the MCMS network to enable KVM control of local sources, which places almost no burden on the network. To provide operators with visuals from remote sources, KVM control signals are combined with video and transferred over IP using RGB Spectrum’s VDA technology allowing both local and remote sources to be displayed at high quality.

**CAPABILITIES**

- Up to 32 local / remote control stations
- Manage up to 320 inputs & 320 outputs
- Video wall processing
- Support for remote operators
- Control over remote resources
User Interface

Enterprise MCMS’s highly-intuitive graphical user interface (GUI) offers a simple “drag-and-drop” method of placing computer or video sources on control station displays or video wall monitors. The contents of a video wall are represented on a single screen as part of the GUI and may be displayed anywhere in the world. This GUI is the cornerstone of the integrated Enterprise MCMS hardware/software system, making it easy for operators to access resources and share control.

RGB Spectrum’s proprietary KlickSimple™ navigation allows seamless mouse and keyboard control across any number of control station monitors or the video wall, allowing them to function as one continuous desktop. With no buttons to push to change control, the hand never has to leave the mouse.

Powerful remote capabilities combined with superb image quality, sophisticated control arbitration tools, and a highly intuitive GUI make Enterprise MCMS the new industry standard for control room management solutions.
RGB Spectrum Products

Digital Switchers
The Linx™ and Opto™ series of DVI and fiber optic switchers enable transmission without signal degradation, providing superb tools for A/D conversion, routing and control, with HDCP compliance.

**Linx**
- Single-link and dual-link DVI, RGB, 3G/HD-SDI inputs
- Single and dual-link DVI and scaled DVI outputs
- Fiber and copper I/O
- Chassis I/O up to 32x32

**Opto**
- Industry highest bandwidth - 6.22 GHz
- Chassis I/O up to a giant 320x320
- Simplex or duplex operation
- Single mode or multimode fiber
- Single and dual-link DVI, RGB and 3G/HD-SDI

Video Wall Processors
Multiple computer and video signals are displayed across an array of monitors or projectors with high quality. Windows can be custom sized, positioned and stretched across any array. An integrated KVM system offers interaction with any source computer.

**OmniWall**
- Real-time operation, no dropped frames
- RGB/DVI, 3G/HD-SDI and analog inputs
- Smooth scaling, panning, and zooming
- Edge blending support and bezel compensation
- HDCP compliant

**MediaWall**
- Industry highest bandwidth - 6.22 GHz
- Chassis I/O up to a giant 320x320
- Simplex or duplex operation
- Single mode or multimode fiber
- Single and dual-link DVI, RGB and 3G/HD-SDI

Multiviewers
For displaying multiple video and graphics on a single screen, the QuadView™ and SuperView™ product lines provide superb multiviewer functionality with the ability to move, resize and overlap images. Options include KVM control of sources, and HDCP compliance.

**SuperView 4100 / 5000**
- Up to 4, 8, or 12 windows
- DVI, RGB, HD-SDI, SD/HD video inputs
- Resolutions to 1920x1200
- Smooth scaling, panning, and zooming

**SuperView 4K**
- 8 megapixel multiviewer
- Up to 8 windows
- DVI single-link or dual-link output
- Smooth scaling, panning, and zooming

Codecs and Recorders
For streaming and recording video, graphics and audio with the highest fidelity, RGB Spectrum offers two codec families — the DSx™ with H.264 high profile compression and the DGy™ with JPEG 2000 compression.

**DSx**
- Up to 1920x1200 resolution
- Simultaneous recording and replay
- Event marking
- Variable speed playback
- Multi-unit synchronization
- Concurrent streaming and recording
- Recording to local and network storage devices

**DGy**
- Up to 8 windows
- DVI single-link or dual-link output
- Smooth scaling, panning, and zooming

Extenders
For secure transmission of DVI signals over long distances, XtendView® FiberDVI signal extenders represent the state-of-the-art with the industry’s smallest size housing.

**XtendView 400**
- Up to 400M over a single fiber
- Resolutions to 2048x1152
- “All-in-the-headshell” design
- HDCP compliant
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