Datasheet

CENTRACON-2008MS | Controller with Interface & Video Switching Module



Key features

- Real-time display of multiple signal sources with splicing, cross-screen, roaming, zoom in/out, picture-in-picture (PiP), picture-outside-picture (PoP), and window superimposition.
- Full-screen range roaming, superimposing, and scaling for all signal windows; supports single-screen multi-window segmentation.
- Android tablet/mobile app control for signal routing, window operations, and scene save/delete/recall/switch.
- Web control from computer, tablet, or mobile browser for scenario switching and system control.
- Supports saving and recalling more than 1000 preset scenes.
- Multiple scenes can be preset for quick switching; supports scene patrol (round-robin) with customizable interval.
- Seamless scene switching with delay <30 ms; no stutter, no blue screen, no splash/tearing.
- Ultra-high-definition subtitle overlay with configurable font, color, size, background color, and background transparency.
- Supports ultra-high-definition static basemaps/backgrounds that can be quickly replaced.
- Supports independent monitor/preview screen display.
- Controls external equipment via RS-232/IR using supported protocols.
- Can control electric curtains, projector lifts/hangers, and LCD lifting frames.
- Can be docked with access control systems, fire-alarm signals, and monitoring/surveillance systems.
- Supports multi-level user management with role-based permissions.

Product Overview

The Macsys CENTRACON-2008MS is a high-performance controller with integrated interface and video switching module, designed for professional AV environments. It combines multi-signal switching, intelligent control, and seamless display management into one compact unit.

Built for command centers, conference halls, and monitoring applications, the system provides real-time switching between multiple video sources, enabling flexible layouts such as multi-window display, picture-in-picture, roaming, and overlay. The CENTRACON-2008MS supports web-based control (B/S architecture), Android/iOS mobile control, and front-panel operation, ensuring maximum convenience for users.

With its powerful interface module, it can integrate external systems like access control, fire alarms, or environmental controls (projectors, curtains, lighting). Robust user management, scene presets, subtitle overlay, and seamless switching make it an ideal choice for mission-critical and collaborative environments.

Technical Specification

Feature	Details
System Architecture	Browser/Server (B/S) architecture; no client-side application installation required
Platform Compatibility	Cross-platform accessibility with customized exclusive interface for comprehensive device management
Video Input/Output	8 inputs and 8 outputs (HDMI)
Input Interface	Standard HDMI interface (19-pin)
Input Resolution	HDMI resolution up to 1920x1200 @ 60Hz, backward compatible
Output Resolution	Supports output resolution up to 1920x1080 @ 60Hz
Switching Technology	High-speed switching core, capable of single-channel data rate up to 6.75 Gbps
System Architecture	Browser/Server (B/S) architecture; no client-side application installation required
Platform Compatibility	Cross-platform accessibility with customized exclusive interface for comprehensive device management
Control Ports	RS-232 (9-pin COM with loop-out), Ethernet network control, RJ485
Display Capabilities	Supports 2 to 4 signal windows with multi-screen roaming, overlay, and arbitrary zoom functionality
Window Management	Smooth adjustment of signal window size and position
Serial Communication Channels	8 RS-232 and 8 RS-485 channels, configurable up to 115,200 baud rate
Relay Outputs	8 relay channels
General I/O	8 channels
IR Sending Ports	8-way IR transmit ports
IR Receiving Port	1-way IR learning receiver
Additional Control Ports	Includes RJ-45 x1, USB 2.0 x1, RS-232 x1, RS-485 x1
Power Supply	AC 220V - 240V, 60Hz
Operating Temperature	0°C to 70°C
Certifications	CE, RoHS compliance

©2024 Macsys

Macsys reserve rights to introduce modifications without notice. Product images are for illustrative purposes only, the actual product may vary. Warranty policy applies as described on our website.