Datasheet

CENTRACON-2024MS | Programmable Controller with Interface & Video Switching Module



Key features

- Realize the display functions of multiple signal sources on the wall, splicing, roaming, cross-screen, zooming in/out, picture-in-picture, picture-out-picture, and picture superimposition etc.;
- Supports roaming, superimposing, and zooming of all signals in the full-screen range,and supports single-screen multi-window segmentation.
- Supports Android system tablet/mobile app installation; the signal source can be controlled by various function on the tablet/mobile phone; for exp, scene save, delete, switch control;
- Support WEB control, which can be used for computer, tablet, or mobile phone to switch scenarios through web browser;
- Support more than 1000 pre-plan scenes to be saved.
- A variety of scenes can be preset in advance easy to switch between various scenes, Supports scene patrol, and can be customized round-robin interval;
- Scene switching delay <30ms seamless, no jam, no blue screen, no splash screen; supports multi-level user management;
- Support ultra-high-definition subtitle function,the font, color, size, background color, and background transparency of the subtitles can be flexibly selected;
- Supports ultra-High-definition static basemaps, which are quick and easy to replace, making the large-screen basemaps more colorful;
- Support independent monitor screen display; can control all control equipment with RS232/IR and its protocols in the words;
- Can control electric curtains, projector hangers, liquid crystal lifting frames, etc. can be docked with access control system, fire - fighting signals ,monitoring systems docking;

Product Overview

The Macsys CENTRACON-2024MS 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-2024MS 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.

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Technical Specification

Feature	Details
System Architecture	Intelligent management and control collaboration system based on AVC technology; B/S architecture, no need to install apps
Platform Compatibility	Cross-platform access and control through web browsers and Android system tablet/mobile APP
Input/ Output	24 channels (8-16)
Input Interface	VGA (DB15PIN), DVI (DVI-I, receive only DVI-D), HDMI (19PIN), CVBS (BNC), SDI (BNC), YPbPr (DB15PIN, needs adapter cable)
Input Resolution	VGA up to 1920x1080@60Hz; supports common resolutions including 848x480, 640x480, 800x600, 1280x720, 1366x768, 1024x768, 1440x900, 1280x1024, 1680x1050, 1920x1080, 1600x1200 (all @60Hz) DVI 1920x1200@60Hz and downward compatible HDMII 1920x1200@60Hz and downward compatible CVBS 576i/480i SDI HD-SD/3G-SDI YPBPR: 480p, 576p, 720p, 1080p
Output Resolution	Up to 1920x1080@60Hz
Switching Technology	High-speed switching cores such as single-channel 6.75Gbps rate ensuring fast switching
Control Ports	RS-232 9pin COM with serial loop-out; Ethernet network control; RS485 control
Display Capabilities	Signal screen 2-4 window support, multi-screen roaming, overlay, arbitrary zoom
Window Management	Smooth adjustment of input 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 channels
General I/O	8 channels
IR Sending Ports	8-way
IR Receiving Port	1-way
Control Interface	RJ-45 *1, USB 2.0 *1, RS-232 *1, RS-485 *2
Power Supply	AC 220V-240V 60Hz
Operating Temperature	0°C to 70°C
Certifications	CE, RoHS compliance

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