Datasheet

HMX-VP8-PRO | 4K60 8x8 Seamless HDMI Matrix Switcher with Audio, 4:4:4, EDID, IR, RS-232, and TCP/IP Control, Video Wall Support



Key features

- True 4K@60Hz (3840*2160) seamless switching for up to 8 channels
- Supports 3.5mm analog audio on each HDMI input/output channel for integrated AV distribution
- HDMI 2.0 and HDCP 2.2 compliant, allowing full 4K ultra-HD content playback and 3D TV support
- Individual input/output EDID management for tailored display resolution settings
- Multiple control options: panel, infrared, RS-232, and IP network interface
- Plug-and-play hot swap design, easy to install and maintain
- Built-in equalizer allows input cable length up to 30 meters; output cable up to 15 meters
- Robust storage with power-off memory and multiple preset switching modes
- Compact 1U rack-mount chassis, low power consumption (22W), and wide-range AC voltage support
- Real-time LCD/LED system status monitoring for efficient maintenance
- Rugged design supports storage and operation from -20°C ~ +70°C; humidity 10% ~ 90%
- Built-in electric field protection for enhanced reliability and safetya

Product Overview

Macsys HMX-VP8-PRO is a premium 4K60 4x4 seamless HDMI matrix switcher engineered for advanced ultra-high-definition AV installations requiring uncompromised performance, reliability, and flexible integration. Its seamless matrix switching supports up to four channels each for HDMI and audio input/output, catering to corporate boardrooms, control centers, conference venues, and demanding digital signage environments. Ultra-clear resolution capability reaching 4K@60Hz (3840*2160) ensures true-to-life image fidelity, while independent 3.5mm audio management enhances system design versatility. Intelligent EDID control provides individual output resolution customization, making the switcher adaptable to diverse display requirements.

Robust multi-protocol control interfaces — including panel buttons, IR remote, RS-232, and TCP/IP — streamline integration into central control and automation ecosystems. Macsys HMX-VP8-PRO features hot-swappable plug-and-play operation, advanced signal equalization for long cable runs, and real-time status display with LCD/LED screens. It offers user-friendly firmware upgrade capability, power-off memory retention, and comprehensive electric field protection for optimal system reliability. The device's compact design fits efficiently in standard racks, making it ideal for space-critical deployments.

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Technical Specification

Feature	Details
Input/Output Channels	8 channels
Input Signal	8 digital HDMI signal + 3.5mm audio signal
Output Signal	8 digital HDMI signal + 3.5mm audio signal
Resolution	Up to 4K@60Hz (3840×2160), backward compatible
HDMI Version	HDMI 2.0, supports 3D TV
Digital Content	HDMI 2.0, supports 3D TV
3D Support	Supports 1080P 3D content
Hot Swap	Plug and play, easy to install, supports hot swap
Input Line Length	Built-in equalizer up to 30m
Output Line Length	≤15m
Input / Output Ports	HDMI interface Type A, 19-pin connector
Audio Handling	8 x 3.5mm independent audio signal input and output
EDID Control	Built-in intelligent EDID, each output supports independent resolution setup
HDCP	Supports HDMI 2.0, compatible with HDCP 2.2 protocol, backward compatible
Signal Transmission Distance	Transmission 4Kx2K@60Hz 4:4:4, signal transmission ≥5 meters
Control Methods	Panel buttons, IR infrared, RS232 commands, IP network port control
Memory / Preset Storage	Stores and recalls multiple pre-stored switching modes; power-off memory function
Switching Performance	Fast, ultra-clear all-digital switching
Electric Protection	Interrupt electric field protection function
Status Display	Supports LCD or LED screen to display system status in real time
USB Firmware Upgrade	Supported
Power Supply	110~220 V AC
Rated Power	Approximately 44W (estimated double of 4x4 value)
Working Environment	Storage and use temperature: -20°C ~ +70°C; Humidity: 10% ~ 90%
Weight	Approximately 4.3 kg
Size (WxDxH)	1U (480mm × 370mm × 44mm)
Certifications	CE, RoHS compliance

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