Datasheet

# HMX-VP4-PRO | 4K60 4x4 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 4 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 safety

## Product Overview

Macsys HMX-VP4-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-VP4-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 | 4 channels |
| Input Signal | 4 digital HDMI signal + 3.5mm audio signal |
| Output Signal | 4 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 | 4 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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