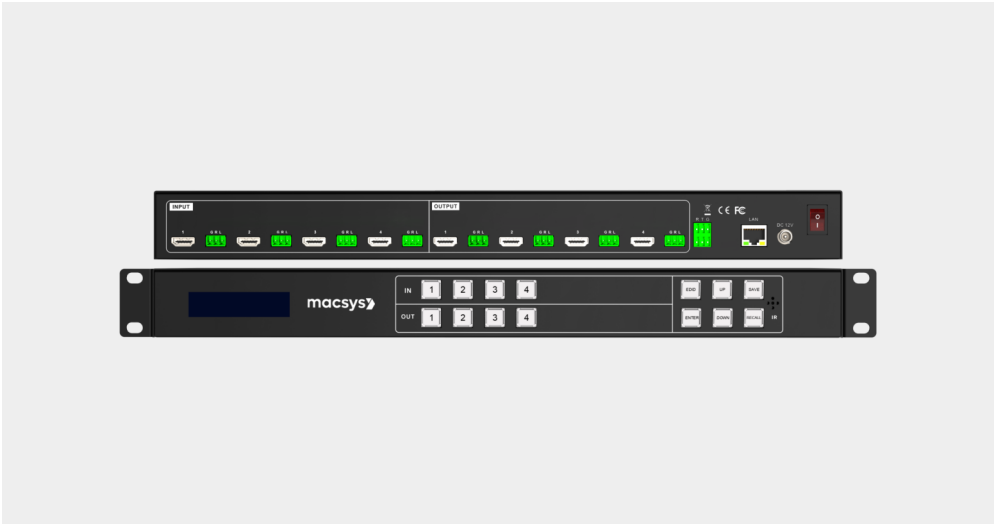
Datasheet

HMX-MS4-PRO | 4K60 4x4 Seamless HDMI Matrix Switcher & Splicer with Audio, 4:4:4, EDID, IR, RS-232, and TCP/IP Control, Video Wall Support



Key features

- 4 HDMI inputs and 4 HDMI outputs in a seamless matrix configuration
- Splicing function (video wall) built in
- True 4K @ 60Hz support with 4:4:4 chroma fidelity
- Intelligent EDID control: each output can have its own EDID setting
- Multiple control interfaces: front panel, IR remote, RS-232, TCP/IP (LAN)
- Seamless switching (no black frames) between inputs
- Memory / preset function and power-failure protection
- Hot-plug and plug-and-play compatibility
- USB firmware upgrade support
- Supports high bandwidth for demanding AV applications

Product Overview

The Macsys HMX-MS4-PRO is a professional-grade 4K60 4×4 seamless HDMI matrix switcher and splicer built for demanding AV environments such as control rooms, conference centers, live events, and digital signage networks. It enables any of the 4 HDMI inputs to be routed to any of the 4 outputs with seamless switching, ensuring zero black screens or signal delay. With advanced splicing (video wall) functionality, EDID management, audio handling, and flexible control options (IR, RS-232, TCP/IP, front panel), this matrix switcher delivers unmatched reliability and versatility. Its 4:4:4 chroma support ensures superior image quality, while features like preset recall, hot-plug support, and firmware upgrade capability make it future-ready and installer-friendly.

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Technical Specification

Feature	Details
Product Type	4×4 Seamless HDMI Matrix Switcher & Splicer
HDMI Inputs / Outputs	4 × HDMI input, 4 × HDMI output (Type A 19-pin connector)
Maximum Resolution	Up to 4K @ 60Hz with full 4:4:4 support, 1080p 3D and lower resolutions
Signal Type	Fully digital HDMI signal + stereo audio
HDMI Version / Standard	HDMI 2.0 (with backward compatibility)
HDCP Support	HDCP 2.2 support; backward compatible Input signal status detection and HDCP control on outputs via commands
Chroma / Color Space	4:4:4 (full chroma fidelity)
Splicing / Video Wall	Supported (built-in video wall/splicing functionality)
EDID Handling	Intelligent EDID control; independent EDID per output
Switching Method	Seamless switching between inputs (no black frames or signal delay)
Audio Input	4 x 3pin Phoenix Connector (Ground, Left, Right)
Audio Output	4 x 3pin Phoenix Connector (Ground, Left, Right)
Monitoring	LCD display shows system status & Information
Control Interfaces	Front panel, IR remote, RS-232 commands, TCP/IP control
Memory / Presets	Supports memory / preset recall, and power-failure memory protection
Hot-Plug / Plug-and-Play	Supported
Firmware Upgrade	Via USB
Cable Distance	Input cable length ≤ 30 meters, Output cable length ≤ 15 meters
Power Consumption	22 W
Dimensions	480 × 190 × 44 mm
Mechanical Casing Type	1U rack mount Design
Certifications	CE, RoHS compliance

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