Datasheet

HMX-MS8-PRO | 4K60 8x8 Seamless HDMI Matrix Switcher & Splicer with Audio, 4:4:4, EDID, IR, RS-232, and TCP/IP Control, Video Wall Support



Key features

- 8 HDMI inputs, 8 HDMI outputs in a seamless matrix arrangement
- Built-in splicing (video wall) with support for 8-screen display
- Support for 4K @ 60Hz with full 4:4:4 chroma fidelity
- Seamless switching (zero black frame or delay) between inputs
- Intelligent EDID control with independent EDID per input and custom output resolution settings
- Multiple control interfaces: front panel, IR remote, RS-232, TCP/IP (LAN)
- Memory / preset function and power-failure memory protection
- Hot-plug and plug-and-play support
- USB firmware upgrade capability
- Suitable for large AV systems requiring high bandwidth and flexibility

Product Overview

The Macsys HMX-MS8-PRO is a high-end 4K60 8×8 seamless HDMI matrix switcher & splicer, engineered for demanding AV installations such as control centers, broadcast studios, multimedia venues, and large-scale digital signage systems. It handles simultaneous switching of 8 HDMI sources to 8 HDMI displays, with seamless transitions and no visible signal interruption. In addition, it supports built-in video wall (splicing) configurations, letting you deploy one source across multiple screens. With intelligent EDID handling, multi-protocol control (IR, RS-232, TCP/IP, front panel), memory presets, and firmware upgrade functionality, the HMX-MS8-PRO is tailored for flexible, reliable integration into modern AV ecosystems. Its full 4:4:4 chroma support ensures color accuracy and image fidelity even at high resolutions.

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Technical Specification

Feature	Details
Product Type	8×8 Seamless HDMI Matrix Switcher & Splicer
HDMI Inputs	8 HDMI input channels (Type A 19-pin connector)
HDMI Outputs	8 HDMI output channels (Type A 19-pin connector)
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
Maximum Resolution	Up to 4K @ 60Hz with full 4:4:4 support, 1080p 3D and lower resolutions
Splicing / Video Wall	Supported (built-in video wall/splicing functionality)
Switching Capability	Seamless matrix switching among 8 HDMI signals (no black frames or signal delay)
Chroma Sampling	Full 4:4:4 chroma support
EDID Management	Built-in intelligent EDID read/write; independent EDID per input; customizable output resolution
Audio Input	8 x 3pin Phoenix Connector (Ground, Left, Right)
Audio Output	8 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
Control Protocols	Compatible with central control systems; supports remote engineering & custom features
Memory / Presets	Supports memory / preset recall, and power-failure memory protection
Power-Failure Protection	Power-down memory retains user settings after shutdown
Seamless Switching	Ultra-clear seamless switching without blackout or delay
Supported Video Formats	4K@60Hz, 1080p 3D, and all lower resolutions
HDMI Version / Compliance	HDMI 2.0; backward compatible (with 3D support)
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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