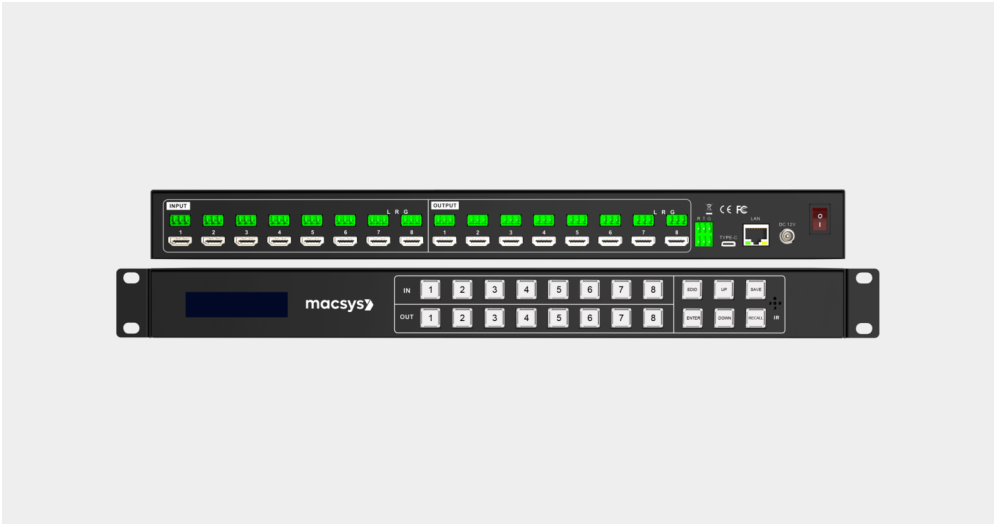
Datasheet

HMX-MS8 | 4K30 8x8 Seamless HDMI Matrix Switcher & Splicer with Audio, 4:4:4, EDID, IR, RS-232, and TCP/IP Control, Video Wall Support



Key features

- Seamless switching across all 8 inputs and outputs, eliminating visual glitches
- Integrated video wall splicing support for multi-screen display configurations
- Full support for 4K@30 Hz (3840×2160) resolution with 4:4:4 chroma
- HDMI 1.4 compatibility and support for HDCP 1.4 / 2.0 protocols
- Smart EDID control via DIP switch, RS-232 command, or web GUI
- Multiple control options: front panel keys, IR remote, RS-232 API, TCP/IP
- USB port for firmware upgrade and future enhancements
- Hot-swap support ensures maintenance and servicing without system downtime
- Real-time LED/LCD panel status display
- Power-off memory and last-configuration recall features
- Input signal equalization to support long cable runs (up to 30 m)

Product Overview

The Macsys HMX-MS8 4K30 8×8 Seamless HDMI Matrix Switcher & Splicer is a high-end AV routing solution built for advanced installations that demand flexibility, precision, and uncompromising video quality. Bridging the gap between pure matrix switching and video wall processing, the HMX-MS8 integrates seamless 8×8 HDMI routing with splicing capabilities and fine control mechanisms in one compact device. It delivers full 4K@30 Hz performance with 4:4:4 chroma support and HDCP compatibility, ensuring crystal-clear imagery for each connected display.

Designed for professional environments such as control rooms, digital signage networks, broadcast facilities, command & control centers, and medical visualization systems, the HMX-MS8 supports a wide range of control protocols (IR, RS-232, TCP/IP) and offers advanced EDID management and memory features to streamline integration. With hot-swap design, firmware upgradability, and status monitoring, it not only satisfies current AV demands but is also future-ready.

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Technical Specification

Feature	Details
Input / Output Channels	8 inputs, 8 outputs (HDMI + 3.5 mm audio)
Maximum Supported Resolution	4K@30 Hz (3840×2160), 1080P 3D
Chroma Sampling	4:4:4
HDMI Version	HDMI 1.4, 3D TV Support
HDCP Support	HDCP 1.4 / 2.0 (backward compatible)
Digital content Protection	HDMI 1.4, 3D TV Support
Control Interfaces	Front panel buttons, IR, RS-232, TCP/IP
EDID Management	Intelligent EDID via DIP, RS-232, Web GUI
Input Cable Lengths	Built in Equaliser, Supports input line length up to 30 m
Output Cable Length	≤ 15 m
Hot-Swap Support	Yes
Audio Input	8 x 3pin Phoenix Connector (Ground, Left, Right)
Audio Output	8 x 3pin Phoenix Connector (Ground, Left, Right)
Memory Function	Power-off memory / last configuration recall
Firmware Upgrade	Via USB (online upgrade)
Monitoring	LCD display shows system status & Information
External Power Supply	110–220 VAC
Operating Temperature	–20 °C to +70 °C
Operating Humidity	10% to 90% (non-condensing)
Weight	4.3 kg
Power Consumption	22 W
Dimensions (W × D × H)	480 × 370 × 44 mm (1U)
Certifications	CE, RoHS compliance

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