Datasheet

HMX-VP8-HDBT | 4K30 8x8 Seamless HDMI & HDBaseT Matrix Switcher with 4:4:4, IR, RS-232, TCP/IP, KVM Control, Video Wall Support



Key features

- 8x8 HDMI & HDBaseT seamless switching with video wall (4/8-screen) splicing mode support
- Ultra HD 4Kx2K@60Hz (4:4:4) with HDMI 2.0 and HDBaseT 2.0
- Multimode control: front panel, IR, RS-232 command, TCP/IP
- Supports 3D, hot swap plug and play, and power-down memory
- Intelligent resolution management via RS-232 and PC
- On-site remote support, special customization, and USB firmware upgrades
- Long-range signal extension: HDMI up to 15m, HDBaseT up to 150m
- Full HDCP 2.2 compliance, backward compatible
- Support for KVM remote control and RS232 transparent transmission
- Real-time LED/LCD panel status display
- Multiple preset storage, power-off protection, and robust environment operation

Product Overview

The Macsys HMX-VP8-HDBT is a high-performance 4K30 8x8 seamless HDMI & HDBaseT matrix switcher engineered for professional video wall, AV distribution, and ultra-high-definition applications. With robust support for both HDMI 2.0 and HDBaseT 2.0 signals, this all-in-one device delivers flawless 4Kx2K@60Hz (4:4:4) switching and splicing across up to eight displays. Designed to excel in reliability and long-distance signal transmission, the matrix enables seamless switching, high-speed distribution, and intuitive control via front panel, IR, RS-232, and TCP/IP. Its powerful hot swap capability, intelligent resolution management, and advanced protocol support make it a stand-out solution for modern digital signage, conference, and control room environments.

Unique selling points include advanced KVM remote control, on-site customization, remote support options, power-off protection, and multiple preset storage for flexible system responses. Real-time status monitoring, both local (via LCD/LED display) and remote, plus a rugged operational range, further enhance suitability for mission-critical AV installations. Full compatibility with HDMI 2.0, HDCP 2.2, and HDBaseT 2.0 ensures future-proof integration.

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Technical Specification

Feature	Details
Switching/Splicing	Input/output: Each supports HDMI 2.0 and HDBaseT 2.0 (8x8 total)
Input Signal	4 HDMI 2.0, 4 HDBaseT 2.0 signals
Output Signal	4 HDMI 2.0, 4 HDBaseT 2.0 signals
Max Resolution	4Kx2K@60Hz (backward compatible)
Protocol Version	HDMI 2.0, HDBaseT 2.0, 3D TV supported
Hot Swap	Supports hot swap plug and play
Input Line Length	HDMI: ≤15m, RJ-45 (HDBaseT): ≤150m
Output Line Length	HDMI: ≤15m, RJ-45 (HDBaseT): ≤150m
Input/Output Ports	HDMI (Type-A 19-pin female), RJ-45 female connectors
Control	Panel buttons, IR remote, RS-232, TCP/IP
RS232 Transmission	Transparent Transmission
Status Display	LCD/LED front panel display
Storage & Protection	Multi-preset, power-down memory & on-site power-off protection
Firmware	USB online upgrade
KVM Support	Supported
RS232 Transmission	Transparent
Power Supply	110–220V AC
Working Environment	-20°C to +70°C; 10–90% humidity
Weight	6.5kg
Dimensions (WxDxH)	440×384×94mm
Certifications	CE, RoHS compliance

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