Datasheet

AVNEX-75K | 4k 30Hz, Integrated Encoder/Decoder HDMI 1.4 With KVM



Key features

- 4K@30 Hz Transmission: Ultra-high-definition video over IP ensures sharp, clear visual quality.
- Integrated Encode/Decode Design: One device acts as encoder or decoder, reducing hardware and complexity.
- Full KVM Functionality: Single-seat control of multiple hosts for secure, efficient operation.
- Visual Control Interface (WYSIWYG): Drag, preview, and arrange signals with no coding or configuration.
- Clock Synchronisation Technology: Maintains video wall alignment with ≤3 µs error for tear-free displays.
- Multi-screen Interactive Sharing: Seamless signal routing between rooms and devices.
- Flexible Window Layouts: Supports overlapping, roaming and varied window sizes and positions on one screen.
- Signal Clipping & Cropping: Automatically removes black edges or trims redundant margins.
- Scalable Distributed System: Network-based design allows unified control across regions.
- Multi-platform Support: Control from PC, tablet, or smart panel (Windows, iOS, Android).
- Multi-system Compatibility: Works across Windows, Linux, iOS and Android without drivers.
- Compact, Reliable Build: For easy installation in mission-critical environments.

Product Overview

The Macsys AVNEX-75K is a high-performance integrated HDMI 1.4 encoder/decoder with KVM designed for mission-critical command centres, control rooms, and enterprise AV networks. Built on a robust H.265 platform, it delivers ultra-high-definition 4K@30Hz video transmission over IP with extremely low latency and seamless multi-channel decoding.

Its integrated encode/decode design lets a single unit act as encoder or decoder, reducing hardware count and simplifying deployment. Advanced clock synchronisation technology (≤3 µs error) keeps video walls perfectly aligned with no tearing, while multi-screen interactive sharing makes it easy to route signals between rooms and devices.

With full KVM functionality, operators can control multiple systems from a single seat. The visual, WYSIWYG control interface allows drag-and-drop signal management and real-time previews without coding or complex setup. Flexible window layouts (overlapping, roaming, variable sizes/positions), signal clipping/cropping, multi-platform support (PC, tablet, smart panel on Windows, iOS, Android) and multi-system compatibility (Windows, Linux, iOS, Android – no drivers needed) make the AVNEX-75K a scalable, future-ready distributed AV and KVM solution.

Technical Specification

Feature	Details
Input	1 x HDMI 1.4
HDMI 1.4 Output	1 x HDMI 1.4
Resolution	Maximum 4K@30Hz (downward compatible)
RS232	1 (phoenix connector)
Infrared Input	1 (phoenix connector)
Infrared Output	1 (phoenix connector)
Audio In	1 (phoenix connector)
Audio Out	1 (phoenix connector)
Gigabit Ethernet	1 x RJ45
LCD	Front LCD displays IP, CPU, network, running time information
KVM	Supported
USB	USB 2.0 ×2
Decoding Performance	A maximum of 16 channels of 1080P@60Hz signals can be resolved
Power Supply	DC12V@2A
Operating Temperature	0°C ~ 70°C
Working Humidity	10% ~ 70% non-condensing
Size	175 × 140 × 30 mm
Weight	450 g
Color	Gray
Certifications	CE, RoHS compliance

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