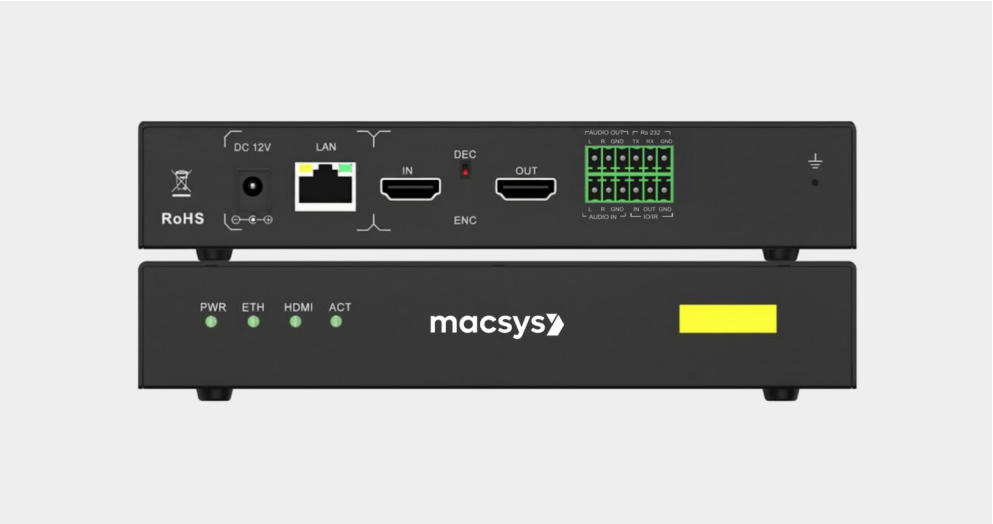
Datasheet

AVNEX-75S | 4k 30Hz, Integrated Encoder/Decoder HDMI 1.4



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.
- 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-75S is an advanced HDMI 1.4 encoder/decoder designed to deliver ultra-high-definition 4K@30Hz video transmission over standard IP networks with outstanding clarity, low latency, and high reliability. Built for command centres, control hubs, conference rooms, and enterprise AV networks, it combines encoding, decoding, and distribution in a single compact and scalable device.

With its integrated encode/decode architecture, each unit can be configured as either an encoder or a decoder—reducing hardware requirements and simplifying deployment. High-precision clock synchronization (≤3 µs error) ensures perfectly aligned video walls with zero tearing, while multi-screen interactive sharing allows seamless signal routing between rooms, displays, and devices in real time.

The intuitive visual control interface provides drag-and-drop signal management, live previews, and flexible layouts without any programming. Users can create overlapping windows, roaming displays, variable-size windows, and clipping/cropping of content to remove black edges or focus on key areas.

Designed as a distributed and scalable AV-over-IP platform, the AVNEX-75S supports centralized management across multiple locations with full multi-platform compatibility (Windows, Linux, iOS, Android—no drivers needed). Compact size, and robust design make it a future-ready solution for professional AV distribution.

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
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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