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KDS-100EN

Open-Standard 4K AVoIP Encoder with
Ultra-Low Latency & Dual Streaming



The KDS-100EN is a professional-grade AVoIP encoder for high-quality 4K video distribution over standard 1GbE networks. Using open-standard H.264/H.265 compression, it delivers excellent visual fidelity while ensuring seamless interoperability across mixed-vendor environments

FEATURES

Dual Streaming - ideal for monitoring, recording, overflow rooms, and collaboration workflows

Built-in KVM over IP - enables secure keyboard/mouse control of remote hosts from any decoder location. With ~40 ms latency, operators get real-time responsiveness

Predefined deployment profiles - make system setup easy and adaptable to both high-capacity and constrained networks

Channel-based routing model - lets users switch sources by channel name/number—no IP addressing expertise required

Auxiliary Data transmission - RS-232 control commands are delivered to/from peripheral devices, providing seamless AV and control integration

Kramer AVoIP Manager integration - enables automatic device discovery, centralized configuration, and real-time monitoring across the entire AVoIP deployment

IT-grade Security - HTTPS/TLS, 802.1x, and OWASP-10 aligned practices



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TECHNICAL SPECIFICATIONS

| | |
|--------------------------|---|
| Inputs | 1 HDMI On a female HDMI connector 1 Balanced Audio On a 5-pin terminal block connector |
| Outputs | 1 HDMI On a female HDMI connector 1 Balanced Audio On a 5-pin terminal block connector |
| Ports | 1 Media / Control LAN PoE On an RJ-45 female connector 1 Fiber on an LC Connector: Standard: 1000BASE-SX, 1000BASE-LX 1 RS-232 On a 3-pin terminal block connector for control 1 RS-232 On a 3-pin terminal block connector for extension 1 USB-B Host Connecting PC/Laptop |
| Network | Multicast IGMPv2 RTP/RTSP/SRT/RTMP/MPEG-TS |
| Video | Max Input/Output Resolution: 3840x2160@60Hz 4:4:4 RTP/RTSP/SRT/RTMP/MPEG-TS |
| Video Streaming | Open Standard: H.264 and H.265 Max Streaming Resolution 3840x2160@60Hz 4:2:2 Secondary Streaming Resolution 1920x1080@60Hz 4:2:2 Latency Low latency: About 40msec Bit Rate Range 1-60Mbps Latency Normal and low Dual Streaming support Primary: Up to 3840x2160@30Hz 4:2:2 Secondary: Up to 1920x1080@60Hz 4:2:2 |
| Resolution | 3840x2160@60Hz 3840x2160@30Hz 1920x1080@60Hz |
| Security | HTTPS, 802.1x, OWASP-10 |
| User Interface | Indicators LINK, NET and ON LEDs, front panel channel number display Rear Panel Recessed factory reset button Controls Embedded web pages, P3K API commands via Ethernet, front panel channel selection buttons |
| Power | PoE+ IEEE 802.3at Source (Optional) 12V DC/5A. Unit has to be supplied by a power supply specified as a Limited Power Source (LPS) or PS2 source of supply Consumption: 13.6W |
| Environmental Conditions | Operating Temperature 0° to +40°C (32° to 104°F) Storage Temperature -40° to +70°C (-40° to 158°F) |

Humidity 10% to 90%, non-condensing

General

Product Dimensions 21.5cm x 16.3cm x 4.4cm (8.5" x 6.4" x 1.72") W, D, H

Product Weight 0.9kg (2lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.6" x 6.50" x 2.05") W, D, H

Shipping Weight 1.4kg (3.1lbs) approx

Product Dimensions 21.46cm x 16.30cm x 4.36cm (8.45" x 6.42" x 1.72") W, D, H

Product Weight 0.9kg (1.9lbs) approx

Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H

Shipping Weight 1.3kg (2.8lbs) approx

