KDS-100EN

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

| Ethernet - RJ-45 | 4K/30 UHD | 4K/60 UHD (4:2:0) | 4K/60 UHD (4:4:4)



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

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. SFP Modules are sold separately
	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

