



# kramer

## KDS-100EN

Open-standard AVoIP 4K@60Hz streaming encoder with audio

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KDS-100EN encoder is an advanced transmitter for streaming 4K@60Hz video signals via Ethernet over copper or fiber cables. It encodes and streams over an IP network from HDMI input, and transmits the IR, RS-232, or CEC signals over IP network

## FEATURES

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**Robust Solution for Large-Scale Installations** - Provides an optimized solution for large Education and Enterprise campuses, as well as Defense and Homeland Security Facilities, with support for numerous simultaneous video flows and built-in advanced management capabilities

**Highly Scalable** - The KDS-100 line supports up to 1000 video sources, suited for large-scale installations

**Built-in Resilient Security Features** - Preserves the integrity, availability and confidentiality of the IT network via a highly secured and resilient AVoIP solution.

KDS-100 devices comply with IT security requirements, including 802.1x and HTTPS/TLS

**Simple Planning and Rollout** - KDS-100 is highly bandwidth-efficient, thus enabling cost-efficient hybrid use of the existing 1GE IT network. There is no need to deal with complex IP packets prioritization or switching settings. Offering easy management, high reliability, and adjustable bandwidth control, KDS-100 is extremely cost-effective to maintain over the long term

**Alternative Sources/Destinations** - An HDMI loop-through port on the encoder side and an HDMI input port on the decoder, as well as embedding and de-embedding analog audio to the IP stream



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## TECHNICAL SPECIFICATIONS

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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 RS-232: On a 3-pin terminal block connector for control 1 RS-232: On a 3-pin terminal block connector for extension 1 Fiber on an LC Connector: Standard: 1000BASE-SX, 1000BASE-LX
Network	1 GE IPv4 Multicast IGMPv2 RTP/RTCP Over UDP MPEG-TS
Video	Max Input/Output Resolution: 3840x2160@60Hz 4:4:4 HDCP (In/Out): 1.4 and 2.2
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 Consumption: 13.6W
Environmental	Operating Temperature: 0 to + 45°C (32 to + 113 °F), 10% to 90%,

Conditions

non-condensing

Storage Temperature: -20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing

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

