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KDS-100DEC-U

Open-Standard 4K AVoIP Decoder with Ultra-Low Latency



KDS-100DEC-U is a professional AVoIP decoder designed to render high quality 4K video from open standard H.264/H.265 streams over standard 1GbE networks. It delivers pristine images to local HDMI displays with ~40ms end to end latency (when paired with KDS 100 encoders), ideal for command rooms, monitoring walls, and operator desks

FEATURES

Dual Streaming - Supports KDS-100 Encoder primary and/or secondary stream

KVM over IP - control with locally connected keyboard/mouse 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 - easily choose your source, IP addressing expertise required

Auxiliary Data transmission - RS-232 control commands and USB data 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 2 USB-A Devices Connecting local HID devices (Mouse/ Keyboard)
Network	Multicast IGMPv2 RTP/RTSP/SRT/RTMP/MPEG-TS
Video	Max Input/Output Resolution 3840x2160@60Hz 4:4:4
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 Dual Streaming support 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 0.5kg (1.2lbs) 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

