KDS-100DEC

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

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



KDS 100DEC 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
- **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 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
	2 USB-A Devices Connecting local HID devices (Mouse/ Keyboard)
Network	Multicast IGMPv2
	RTP/RTSP/SRT/RTMP/MPEG−TS
Video	Maximum Input/Output Resolution: 3840x2160@60Hz 4:4:4
Video Streaming	Open Standard H.264 and H.265
	Maximum Streaming Resolution 3840x2160@60Hz 4:2:2
	Secondary Streaming Resolution 1920x1080@60Hz 4:2:2
	Bit Rate Range 1−60 Mbps
	Latency Low latency, about 40 msec
	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
	Shipping Dimensions 34.50cm x 16.50cm x 5.20cm (13.6" x 6.5" x 2.05") W, D, H
	Product Weight: 0.9kg (2lbs) approx
	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

