



# kramer

## KDS-EN6

4K60 4:2:0 HDCP 2.2 Video Encoder

| HDMI | Ethernet - RJ-45 | 4K/60 UHD (4:2:0)  
| HDCP 2.2 Compatible



The KDS-EN6 encoder provides streaming over an IP network that carries 4K@60Hz (4:2:0) video, audio, IR, RS-232, USB over IP with HDCP 2.2 in unicast (one-to-one) or multicast (many-to-many) configurations

## FEATURES

**Video Support** - HDMI 4K@60Hz (4:2:0)

**Audio Support** - HDMI/line in, 7.1 PCM, Dolby True-HD, and DTS-HD Master audio

**Virtualization** - IR, USB, RS-232 over IP

**Network** - Switch 1G multicast IGMP snooping managed layer 2

**Power** - PoE or external power supply (not included)

**HDCP** - 1.4 and 2.2 compliance

**Video Effects** - Video Wall – 1 to 256 screens



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## TECHNICAL SPECIFICATIONS

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Inputs:	1 HDMI connector, 1 unbalanced stereo audio on a 3.5mm mini jack (line in), 1 RS-232 on terminal block connectors, 1 USB (type B) port, 1 IR on 3.5mm mini jack (Rx)
Outputs:	1 Ethernet (LAN/PoE) on an RJ-45 connector, 1 IR on 3.5mm mini jack (Tx)
Network:	10M/100M/1000M
Network Switch:	1G multicast, IMGP snooping non-blocking, Layer 2
Streaming:	Unicast and multicast through RTSP (Real Time Streaming Protocol)
Controls:	Reset button, up and down channel buttons, channel 7-segment display, STATUS, LINK and ON LEDs
IR:	Wide-band 20kHz to 60kHz bidirectional IR transmission
Video Encoding/Decoding:	Compression standard JPEG 2000
HDCP:	HDCP 1.4 and 2.2
Scaling and Cropping:	Built in scaling and cropping for flexible display of source content on the decoder output
Bit Rates:	Peak: 850Mbps, 4K average: 350Mbps, 1080p average: 250Mbps
Resolution:	4096x2160@60Hz, 3840x2160@60Hz, 1920x1200@60Hz, 1920x1080@60Hz, 1864x1050@60Hz, 1856x1392@60Hz, 1792x1344@60Hz, 1728x1080@60Hz, 1704x960@60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1600x1050@60Hz, 1600x900@60Hz, 1536x960@60Hz, 1440x900@60Hz, 1440x576@60Hz, 1440x480@60Hz, 1400x1050@60Hz, 1366x768@60Hz, 1360x768@60Hz, 1280x1024@60Hz, 1280x960@60Hz, 1280x800@60Hz, 1280x768@60Hz, 1280x720@60Hz, 1224x768@60Hz, 1152x864@60Hz, 1152x720@60Hz, 1024x768@60Hz, 1064x600@60Hz, 1024x384@60Hz, 960x600@60Hz, 848x480@60Hz, 800x600@60Hz, 768x480@60Hz, 720x576@60Hz, 720x480@60Hz, and 640x480@60Hz, 640x400@60Hz, 640x350@60Hz
Audio Encoding/Decoding:	Compression standard (analog in/out): AAC-LC
Channels (HDMI embedded Audio):	PCM 2, 5.1, 7.1 Channel, Dolby Digital 5.1 Channel, Dolby Digital Plus, Dolby Digital True-HD, DTS 5.1 Channel, DTS-ES, DTS-HD High Resolution, DTS-HD Master Audio
Power	Source PoE or 48V DC external power supply (not included)  Typical Consumption 140mA max
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%, RHL non-condensing
Product Dimensions	19.00cm x 11.60cm x 2.70cm (7.48" x 4.57" x 1.06" ) W, D, H
Product Weight	0.6kg (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	0.8kg (1.7lbs) approx

