



## KDS-DEC7

High-performance, highly-scalable, AVoIP  
Decoder for 4K over 1G network (KDS-7)

| HDMI | Ethernet - RJ-45 | HDCP 2.2 Compatible



KDS-DEC7 decoder is an advanced receiver for streaming 4K video signals via Ethernet over copper cable. It decodes streams over an IP network to HDMI output, and transmit the USB, IR, RS-232, or CEC signal over IP network

## FEATURES

### Outstanding end-user experience -

Rich set of inputs and interfaces

Easy-to-use KM/KVM - Searchable OSD Menu for KM and fully configurable KVM roaming

Large scale video wall - up to 16x16

Instantaneous switching time - 1 second

### Ideal for large-scale deployments -

Highly scalable - 999 channels build in support

State of the art management device

Rich set of management capabilities - Standard P3K Open API , LCD screen for configuration

### Robust security -

Enterprise IT-grade security - 802.1x and HTTPS/TLS

Security certification - OWASP Top 10 certificate

Separate ETH ports for optimal security and experience

New HW architecture that enables robust FW update

### Simple planning and rollout: -

Cost-effective from day one

Full product range for any site, any application

Plug-and-play with Netgear M4250 AVoIP switches, Kramer Control, KDS-USB2, etc.

### PoE Support -

Using PoE switch - up to 13W consumption

### Alternative sources/destinations -

HDMI Loop-Through on Encoder and HDMI Input on Decoder

### Analog Audio -

Embedding and De-embedding

### Control gateway -

Through P3K control/communicate with IR, RS232, or CEC to the connected devices



## TECHNICAL SPECIFICATIONS

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|                 |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs          | 1 HDMI: On a female HDMI connector                                                                                                                                                                                                                                                                                                                                                                                    |
| Outputs         | 1 HDMI: On a female HDMI connector                                                                                                                                                                                                                                                                                                                                                                                    |
| Ports           | 2 Ethernet: On R-J45 connectors<br><br>1 Balanced Audio: On a 5-pin terminal block connector<br><br>1 RS-232: On a 3-pin terminal block connector<br><br>1 IR: On a 3.5mm TRS connector<br><br>2 USB: On USB-A connectors                                                                                                                                                                                             |
| USB Features    | Integrated USB Hubs 1-layer when connecting to KDS-EN7                                                                                                                                                                                                                                                                                                                                                                |
| Network         | Multicast Through RTSP (Real Time Streaming Protocol): IGMP snooping non-blocking, Layer 2<br><br>Unicast Through RTSP (Real Time Streaming Protocol)<br><br>Bitrate Peak: 850Mbps, 4K average: 350Mbps, 1080p average: 250Mbps                                                                                                                                                                                       |
| Video           | Compression Standard: JPEG based, private stream<br><br>Max Resolution: 4K@30Hz 4:4:4                                                                                                                                                                                                                                                                                                                                 |
| Video Streaming | Compression Standard: JPEG2K based, proprietary stream<br><br>Max Input Resolution: 4K@60hz (4:2:0)<br><br>Max Output Resolution: 4K@30hz (4:4:4)<br><br>Max End-to-End Resolution: 4K@30hz (4:4:4)<br><br>Scaler: Yes<br><br>End-to-End Latency: 33msec<br><br>Switching Time: 1sec                                                                                                                                  |
| Resolution      | 4096x2160@60Hz, 1600x1200@60Hz, 1280x960@60Hz, 848x480@60Hz, 3840x2160@60Hz, 1600x900@60Hz, 1280x800@60Hz, 800x600@60Hz, 1920x1200@50Hz, 1440x900@60Hz, 1280x768@60Hz, 720x576@60Hz, 1920x1080@60Hz, 1400x1050@60Hz, 1280x720@60Hz, 720x480@50Hz, 1856x1392@60Hz, 1366x768@60Hz, 1224x768@70Hz, 640x480@60Hz, 1792x1344@60Hz, 1360x768@60Hz, 1152x864@70Hz, 640x400@85Hz, 1680x1050@60Hz, 1024x768@60Hz, 640x350@85Hz |
| Audio           | Supported Formats LPCM, Dolby and DTS<br><br>LPCM LPCM upto 7.1/24-bit/192kHz<br><br>Dolby Dolby Atmos™, Dolby TrueHD, Dolby Digital Plus™, Dolby Digital EX, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0<br><br>DTS DTS-HD Master Audio™, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS Digital Surround 5.1                                                                              |
| Security        | HTTPS, 802.1x, OWASP-10, AES-128 encryption of AV streaming with changeable key                                                                                                                                                                                                                                                                                                                                       |
| User Interface  | Indicators: LINK, NET and ON LEDs, front panel LCD Display                                                                                                                                                                                                                                                                                                                                                            |

Controls: Restart and factory reset rear panel button, embedded web pages, P3K API commands via Ethernet, front panel navigation buttons

Power

PoE (Power over Ethernet) 37V to 57V, max power 13W

Optional power supply 24V DC, 5A

Environmental Conditions

Operating Temperature: 0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing

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

Humidity: 10% to 90%, non-condensing

Product Dimensions 18.90cm x 14.50cm x 2.76cm (7.44" x 5.71" x 1.09" ) W, D, H

Product Weight 0.7kg (1.5lbs) approx

Shipping Dimensions 31.20cm x 17.90cm x 7.60cm (12.28" x 7.05" x 2.99" ) W, D, H

Shipping Weight 0.9kg (2.1lbs) approx

