KN6000DU

VIDEO ENCODER / DECODER FOR NETWORKED APPLICATIONS

KN6000DU

Ultrak's KN6000DU Network Video encoder / decoder unit allows for the seamless integration of analog CCTV into a digital network. Each unit provides the ability to switch 4 IP addressable analog cameras, two-way audio, and 2 data transmission lines for example for P/T control. The high degree of video compression allows the KN6000DU to transmit video at 30fps with CIF resolution.

The KN6000DU offers the flexibility to respond to diverse security applications and network environments. Using encoding- and decoding-enabled units allows all inputs to be received on both digital and analog devices; it can also act as a web server with optional software. The KN6000DU maximizes resources to enable coordinated remote monitoring and communication across multiple locations using standard network interfaces including LANs, WANs, wireless networks, and Internet communication links. The KN6000DU delivers user-selectable encode and decode modes, user-configurable bandwidths from 8 Kbps to 3 MBps, programmable choice of constant video quality or capped network bandwidth utilization.

- **Can be used as encoder/decoder or webserver**
- **Video compression ITU-standard H.261 or MJPEG**
- **Up to 30 fps at CIF resolution**
- **Audio Compression user selectable between G.711 and G.728.**
- **Bitrates configurable from 8Kbps to 3Mbps.**
- **Binary I/O triggers**
- **Connect to existing network using 10/100 Base-T Ethernet, TCP, or UDP**
- **Video decode to display on both analog monitors and PCs**
- **Pass-thru serial data channel**
- **5Vdc operation, external power supply included**
- **Hardware unit and rack mount version available (KNC610DU)**

ULTRAK®

KN6000DU

TECHNICAL SPECIFICATIONS

POWER

External Power Supply	100-240VAC / 5VDC / 50/60Hz
Operating Voltage	5Vdc
Power Consumption	5W (typical) 7W (maximum)

FUNCTION

Encoder / Decoder / Webserver

VIDEO

Resolution	H.261 CIF: 352 x 240 pixels QCIF: 176 x 120 pixels	MJPEG 2CIF: 704 x 240 pixels 4CIF: 704 x 480 pixels
Video Compression	Full frame rate, full color ITU standard H.261: Up to 30 fps at CIF resolution MJPEG: Up to 15 fps at 2CIF resolution	
Video Output	Software decode for display to PCs 1 x CVBS, 1Vpp/75ohm (decoder)	
Video Input	4 x CVBS, 1Vpp/75ohm (encoder)	

AUDIO

General	G.711 and G.728 user selectable
Audio Input	Line in 3.5mm jack Nominal voltage: 1V p-p Maximum voltage: 1.5V p-p Signal to noise ratio: 78 dB
Audio Output	Line out 3.5mm jack Nominal voltage swing: 1V p-p Maximum voltage swing: 1.5V p-p Minimum load impedance: 8W Signal to noise ratio: 77dB

COMMUNICATIONS

Data Input/Output	Serial #1 Selectable EIA-574 RS232 or EIA-422, RS422 115 Kbps max. Serial #2 EIA-574 RS232, 230 Kbps
Binary Input/Output	4 - Opto-isolated inputs Maximum isolation: 5.3 KVrms Minimum I*f* current: 10 mA 2 Solid state relay outputs Maximum load: (AC/DC): 160V @ 0.1A Maximum isolation: 2.5 KVrms
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP Connect via RJ-45

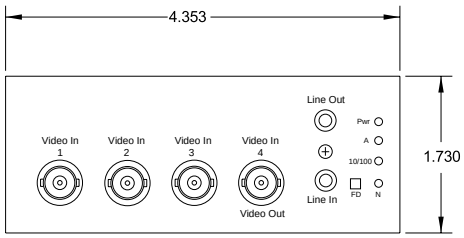
VIEWING STATION

Minimum System Requirements	IBM PC compatible with Pentium II 266MHz and 32MB memory
Recommended system Requirements	IBM PC compatible with Pentium III 550MHz and 128MB memory

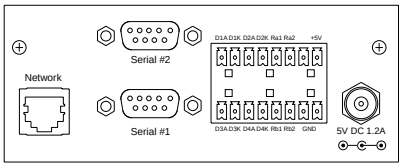
CONNECTOR & MECHANICAL

Video Output/Input	BNC connector
Network Connector	RJ-45 Connector
External Dimensions	107.35W x 43.18H x 184.25L (mm) 4.25" W x 1.7" H x 7.25" L (including connectors)
Weight	1 lb. (5.1 oz), 0.453 kg
Ambient Temperature	+32°F to +122°F / 0°C to +50°C
Approvals	CE / UL / FCC

FRONT VIEW

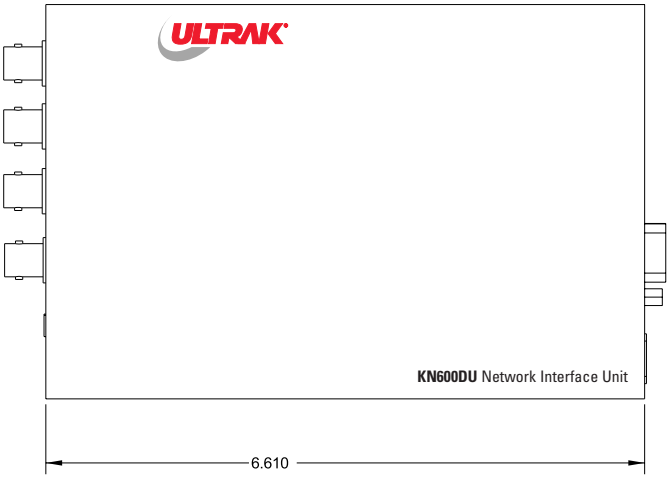


BACK VIEW



SIDE VIEW

TOP VIEW



Design and specifications subject to change without notice.

Conversion: 1" = 25.4mm
Measurement conversions are approximate

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