

H.264 HD/SD VIDEO ENCODER

FEATURES

- Real-time, high-quality encoding of full motion video for video-over-IP applications
- Standards-based, H.264 algorithm (HP/MP/BP)
- Resolutions up to:
 - SDI: 1080p
 - VESA: 1920 x 1200
- Supports HD/SD-SDI, DVI (HDMI/RGBHV/RGsb), and NTSC/PAL Formats
- Transmit video at rates as low as 64Kbps, and up to 20Mbps
- RTSP/RTP/UDP and TS/UDP Protocols
- MISB-Compliant
- Fully configurable network interface
- Encode Latency as low as 50ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II and ADPCM Audio Compression
- GPS/IRIG Time Input
- Serial and Ethernet User Data
- RS-232 or Ethernet port configurable
- Compact, rugged packaging, including extended temperature (-38°C to +74°C)



The Model 4480E H.264 HD/SD Video Encoder is a network appliance designed to compress High Definition (HD) and Standard Definition (SD) video (HD/SD-SDI, HDMI, RGBHV, RGsb, NTSC, PAL) for transmission over IP networks. The unit converts cameras and A/V equipment to Ethernet compatible devices for any remote monitoring application including, security, surveillance, and distance learning.

Utilizing industry-standard H.264 compression, along with flexible adjustments for video resolutions, compression parameters, and network settings, the 4480E can be configured to deliver high-quality video over any network. The unit is easily configured via the Ethernet or serial port. Audio and user-data channel multiplexing provide for single-stream transmission. The 4480E is compliant with off-the-shelf video players and most decoding hardware.

This compact, rugged unit is capable of operation in harsh environments. Extended temperature operation makes it ideal for military, law enforcement, and traffic monitoring applications. An optional 1RU, multi-unit (up to 4) rack-mount adaptor is available to ease integration.

MODEL 4480E

H.264 HD/SD VIDEO ENCODER

VIDEO INPUT

Ports Two
Format SMPTE/VESA/NTSC/PAL
Connector BNC/DVI

VIDEO COMPRESSION

Algorithm H.264
Format HP/MP/BP
Resolutions 1080p/720p/1080i/480i/576i
Frame Rate 25/29.97/30/50/59.94/60
GOP Structure Inter/Intra; Variable Size
Scaling HH/HV/CIF

STREAMING INTERFACE

Ports One
Protocol MPEG-2 Transport Stream
RTSP/RTP
Data Rate 64Kbps to 20Mbps
Format 10/100/1000 Ethernet IP
Configuration DHCP or Static Address
Selectable Ports
Auto Sense Full/Half Duplex
Unicast/Multicast
Connector RJ-45

USER DATA INTERFACE

Ports Three
Protocol Clear/KLV/FLIR/Wescam
Format SDI/RS-232/RS-422/Ethernet
Connector RJ-45/BNC (SDI)

CONTROL

Ports Two
Format RS-232/Telnet/Web Browser
Protocol Delta's 3-character mnemonics/HTML
Connector RJ-45

TIME INPUT/OVERLAY

Ports One
Protocol GPS/IRIG-B (DC)
Connector RJ-45

AUDIO INPUT

Ports Three
Format Analog/SDI/DVI
Channels None, Left, Right, Stereo
Analog Format Single-Ended (Line Level)
Analog Level 2.8Vp-p (1Vrms)
Analog Impedance 10K Ohms
Connector 3.5mm

AUDIO COMPRESSION

Algorithms Two
Format MPEG-1 Layer II/ADPCM
Sample Rates MPEG-1: 48Ksps
ADPCM: 16Ksps
Bit Rates MPEG-1: 64Kbps/96Kbps/192Kbps
ADPCM: 64Kbps
Sync Lip synchronized with video

ENVIRONMENTAL

Temp (Op) -38°C to +74°C
Temp (Storage) -55°C to +85°C
Humidity 5%-95% RH, non-condensing

POWER

Volts +9-36VDC
Watts 7W
Connector 2.5mm Center Positive
(Locking Option)

SIZE

Chassis 1.12"H x 4.15"W x 4.5"D
28.4mm x 105.4mm x 114.3mm
Weight 0.75lbs. (340g)



Optional 1RU Rackmount Adaptor



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