![DELTA Digital Video logo]

MODEL 4480ES
H.264 SD VIDEO ENCODER

TECHNICAL SPECIFICATIONS

FEATURES

- Real-time, high-quality encoding of full motion video for video-over-IP applications
- Standards-based, H.264 algorithm (HP/MP/BP)
- Supports NTSC, PAL, RS-170
- Transmit video at rates as low as 64Kbps, and up to 20Mbps
- RTSP/RTP/UDP and TS/UDP Protocols
- Video/Audio/Data multiplexing IAW MPEG-2 Transport Standard
- MISB-Compliant
- Fully configurable network interface
- Encode Latency as low as 100ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II and ADPCM Audio Compression
- IRIG Time Input
- Serial and Ethernet User Data
- RS-232 or Ethernet port configurable
- Compact, rugged packaging, including extended temperature (-38ºC to +74ºC)

The Model 4480ES H.264 SD Video Encoder is a network appliance designed to compress composite, Standard Definition (SD) video (NTSC, PAL, RS-170) for transmission over IP networks. The unit converts legacy 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 4480ES 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 4480ES is compatible 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, distance learning, and traffic monitoring applications. An optional 1RU, multi-unit (up to 4) rack-mount adaptor is available to ease integration.

MODEL 4480ES

H.264 SD VIDEO ENCODER

VIDEO INPUT
Ports   One
Format   Composite
Connector   BNC

VIDEO COMPRESSION
Algorithm   H.264
Format   HP/MP/BP
Resolutions   480i/576i
Frame Rate   25/29.97/30
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   Two
Protocol   Clear/KLV
Format   RS-232/RS-422/Ethernet
Connector   RJ-45

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

TIME INPUT/OVERLAY
Ports   One
Protocol   IRIG-B (DC)
Serial Conn   RJ-45

AUDIO INPUT
Ports   One
Format   Analog
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: 6Ksps
Bit Rates   MPEG-1: 64Kbps/96Kbps/192Kbps
    ADPCM: 64Kbps
Sync   Lip synchronized with video

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

POWER
Volts   **+**9-36VDC
Watts   7W
Connector   2.5mm Center Positive, Locking

SIZE
Chassis   1.12"H x 4.15"W x 4.5"D
Weight   < 0.75lbs.