

UHD/HD/SD VIDEO ENCODER

FEATURES

- Real-time, high-quality, low-latency encoding of full motion video for video-over-IP applications
- Standards-based, H.264 and H.265 algorithms
- Ultra low-latency JPEG-XS or Uncompressed
- Resolutions up to 4K
- Supports UHD/HD/SD-SDI, HDMI, and Composite (NTSC/PAL) Formats
- Transmit video at rates as low as 64Kbps up to 12Gbps
- RTSP/RTP/UDP, TS/UDP, SMPTE-2110, SRT/RIST Protocols
- MISB-Compliant
- Fully configurable network interface
- AES Encryption
- Encode Latency as low as 20ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II Audio Compression
- GPS/IRIG/PTP/NTP Time Sync
- Serial and Ethernet Metadata
- Serial or Ethernet port configurable
- Compact, rugged packaging, including extended temperature (-38°C to +74°C) version



The Model 5480E UHD/HD/SD Video Encoder is a multi-channel network appliance designed to compress Ultra High Definition (UHD), High Definition (HD), and Standard Definition (SD) video (UHD/HD/SD-SDI, HDMI, Composite) 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, broadcast, and distance learning. In addition, the 5480E is also capable of streaming uncompressed video.

Utilizing industry-standard H.264/H.265, or low-latency JPEG-XS compression, along with flexible adjustments for video resolutions, compression parameters, and network settings, the 5480E can be optimized to deliver high-quality video over any network. The unit is easily configured via the Ethernet or serial port, with support for audio and metadata channel multiplexing. The 5480E is compliant with off-the-shelf video players and most decoding hardware, including Delta's companion Model 5480D video decoder.

This compact, rugged unit is capable of operation in harsh environments. Extended temperature operation, SRT/RIST support, and AES encryption makes it ideal for military, law enforcement, and traffic monitoring applications.

VIDEO INPUT

Format SMPTE/Composite/HDMI
Connector BNC (2x)/HDMI/SFP+

VIDEO COMPRESSION

Algorithms H.264/H.265/JPEG-XS
Format H.264: BP,MP,HP Level 5.1, 4:2:2, 8-Bit
H.265: MP,M10P Level 5.1, 4:2:2, 8/10-Bit
JPEG-XS: 4:2:2, 8/10-Bit
Resolutions 2160p/1080p/720p/1080i/480i/576i
Frame Rate 25/29.97/30/50/59.94/60
Scale/Crop HH/HV/CIF/ROI

STREAMING INTERFACE

Ports GbE & SFP+
Protocol MPEG-2 Transport Stream
RTSP/RTP
SMPTE-2110
SRT/RIST
Data Rate 64Kbps to 12Gbps
Configuration DHCP or Static Address
Selectable Ports
Auto Sense Full/Half Duplex
Unicast/Multicast
Connector RJ45/SFP+ (Copper or Fiber)

METADATA INTERFACE

Format SDI VANC/RS-232/Ethernet
Protocol KLV/Clear
Connector BNC (SDI)/RJ45/SFP+

CONTROL

Format Serial/Telnet/Web Browser
Protocol Deltas 3-character mnemonics/HTML/https/
SSH/SNMPv3
Connector RJ45/USB/SFP+

TIME INPUT/OVERLAY

Protocol GPS/IRIG-B (DC)/PTP/NTP
Connector RJ45/SFP+

AUDIO INPUT

Format Analog/SDI/HDMI
Channels None, Left, Right, Stereo
Analog Format Single-Ended (Line Level)
Analog Level 1Vp-p (0.35Vrms)
Analog Impedance 10K Ohms
Connector 3.5mm

AUDIO COMPRESSION

Algorithms MPEG-1 Layer II
Sample Rate 48Ksps
Bit Rates 64Kbps/96Kbps/192Kbps
Sync Lip synchronized with video

ENCRYPTION

Algorithm AES-128/256

ENVIRONMENTAL

Temp (Op) Commercial (12Gb): 0°C to +74°C
Industrial (10Gb): -38°C to +74°C
Temp (Storage) -55°C to +85°C
Humidity 5%-95% RH, non-condensing

POWER

Volts +9-36VDC
Watts 15W
Connector 2.5mm Center Positive
(Locking Option)

SIZE

Dimensions 1.13"H x 5.50"W x 6.485"D
28.7mm x 139.7mm x 164.7mm
Weight 1.1lbs. (0.493kg)

MTBF

Estimated ~55,000 hours (Airborne, Inhabited
Cargo environment (+25°C))

