MODEL 5480D

UHD/HD/SD VIDEO DECODER

TECHNICAL SPECIFICATIONS

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

- Receive video at rates as low as 64Kbps up to 10Gbps

- RTSP/RTP/UDP, TS/UDP, SMPTE-2110, SRT/RIST Protocols

- MISB-Compliant

- Fully configurable network interface

- AES Decryption

- Decode Latency as low as 20ms

- Stereo/dual-channel audio outputs

- MPEG-1 Layer II Audio Support

- PTP/NTP Time Support

- Serial and Ethernet Metadata

- Serial or Ethernet port configurable

- Compact, rugged packaging, including extended temperature (-38ºC to +74ºC) version

The Model 5480D UHD/HD/SD Video Decoder is a multi-channel network appliance designed to decompress Ultra High Definition (UHD), High Definition (HD), and Standard Definition (SD) video (UHD/HD/SD-SDI, HDMI, Composite) for video-over-IP applications. The unit converts compressed and uncompressed video streams to their original, or scaled, video formats for display. The 5480D is ideal for any remote monitoring application including, security, surveillance, and distance learning.

The 5480D is designed as a companion to Delta's 4000, 5000, 6000, 7000, and 9600 Series Encoders or any standards-based encoder. The decoder utilizes the industry-standard H.264 and H.265 compression algorithms for delivering high-quality video and audio to flat panels and video walls. In addition, the 5480D can be used as a companion to Delta's Model 5480E to decode visually-lossless, super low latency JPEG-XS and uncompressed streams.

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

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

VIDEO DECOMPRESSION
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 10Gbps
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	Delta's 3-character mnemonics/HTML/https/ SSH/SNMPv3
Connector	RJ45/USB/SFP+

AUDIO OUTPUT
Ports	Three
Format	Analog/SDI/HDMI
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 DECOMPRESSION
Algorithms	MPEG-1 Layer II
Sample Rate	48Ksps
Bit Rates	64Kbps/96Kbps/192Kbps
Sync	Lip synchronized with video

DECRYPTION
Algorithm	AES-128/256

ENVIRONMENTAL
Temp (Op)	Commercial (12Gb): 0ºC to +74ºC
	Industrial (10Gb): -38ºC to +74ºC
Temp (Storage)	-55ºC to +85ºC
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 (+25ºC)

DELTA
Digital Video

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