DELTA
Digital Video

MODEL 4480
HD/SD VIDEO CODEC

TECHNICAL SPECIFICATIONS

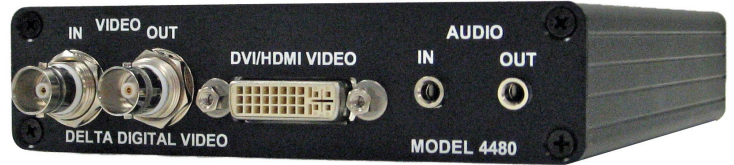## FEATURES

- Real-time, high-quality encoding/decoding of full motion video for video-over-IP applications

- Standards-based, H.264 algorithms (HP/MP/BP)

- Resolutions up to 1080p

- Supports HD/SD-SDI, HDMI/DVI, and NTSC/PAL Formats

- Transmit video at rates as low as 64Kbps, up to 10Mbps

- RTP/UDP and TS/UDP Protocols

- Video/Audio/Data multiplexing IAW MPEG-2 Transport Standard

- MISB-Compliant

- Fully configurable network interface

- Latency <200ms

- Stereo/dual-channel audio inputs

- MPEG-1 Layer I/II Audio Compression

- Serial and Ethernet User Data

- RS-232 or Ethernet port configurable

- Compact, rugged packaging, including extended temperature (-20ºC to +71ºC)

The Model 4480 HD/SD Video CODEC is a network appliance designed to convert HD/SD-SDI and analog cameras into video-over-IP devices. The 4480 provides a practical, cost-effective means to add High Definition (HD)and legacy Standard Definition (SD) sensors to new or existing IP networks. The unit can also be configured as a decoder to convert back to composite, SDI, or DVI for display in ground stations, operations centers, or classrooms.

Utilizing industry-standard H.264 compression, along with flexible adjustments for video resolutions, compression parameters, and network settings, the 4480 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 4480 is compliant with most off-the-shelf video players.

This compact, rugged unit is capable of operation in harsh environments. Extended temperature operation make it ideal for military, law enforcement, distance learning, and traffic monitoring applications.

VIDEO INPUT/OUTPUT

Ports	Three
Format	SMPTE/NTSC/PAL
Connector	BNC/DVI

VIDEO COMPRESSION

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

TRANSPORT STREAM

Ports	One
Protocol	MPEG-2 Transport Stream RTP
Data Rate	64Kbps to 10Mbps
Format	10/100 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
Baud	9.6Kb-115Kb
Connector	9-pin D-Sub/RJ-45

CONTROL

Ports	Two
Format	RS-232; TCP/IP
Protocol	Delta's 3-character mnemonics/HTML

AUDIO INPUT/OUTPUT

Ports	Two
Channels	None, Left, Right, Stereo
Format	Balanced (Line Level)
Levels	2.8Vp-p (1Vrms)
Impedance	10K Ohms
Connector	3.5mm

AUDIO COMPRESSION

Algorithm	One
Format	MPEG-1 Layer I/II
Sample Rates	8K/16Ksps
Sync	Lip synchronized with video

ENVIRONMENTAL

Temp (Op)	-20ºC to +71ºC
Temp (Storage)	-55ºC to +85ºC
Humidity	5%-95% RH, non-condensing

POWER

Volts	**+**9-36VDC
Watts	7W

SIZE

Chassis	1.2"H x 4.92"W x 6.5"D