

8-CH SD VIDEO ENCODER, COMPACT/RUGGED

TECHNICAL SPECIFICATIONS

FEATURES

- Real-time, Full-motion Video (FMV) compression for up to 8 SD channels
- H.264 video compression produces high quality video even at low bit rates
- MISB/STANAG/VICTORY Compliant
- Ethernet Output Interface (UDP-IP)
- Metadata Support - Asynchronous via serial or Ethernet (optional KLV Encoding)
- <50ms Encode Latency
- Fully configurable network interface
- Data Rates from 64Kbps to 10Mbps
- Stereo/dual-channel audio inputs
- MPEG-1 Layer I/II Audio Compression
- RS-232 or Ethernet port configurable
- Compact, lightweight Chassis
- -40°C to +71°C Operation



Delta's Model 6008R 8-Channel SD Video Encoder provides for the transmission of multiple channels of full-motion video for ISR applications. Primarily designed for small platforms, the 6008R is a rugged, compact unit with all the features of Delta's JITC certified video encoder products. These include, standards-compliant video compression, KLV metadata processing, and transport stream multiplexing.

Utilizing H.264 (MPEG-4 AVC) encoding, the 6008R provides flexibility for optimizing video performance for any given bit rate. User-configurable parameters permit the user to adjust the video/audio/data features in accordance with mission requirements.

The 6008R is built around an advanced, high-speed, multi-media processor working with a fully optimized codec. Delta's technology has been integrated and fielded in numerous applications with various airborne, ground, and shipboard platforms and is compatible with MISB and STANAG standards. It is compatible with other Delta products and can be easily integrated with standards-compliant processing, dissemination, and exploitation (PED) systems.

The unit has a fully-configurable network interface for transport stream transmission making it a "drop-in" for digital datalink applications. The 6008R is easily configured via Ethernet (web GUI or Telnet) or serial connection.

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8-CH SD VIDEO ENCODER, COMPACT/RUGGED

VIDEO

Input Composite (8x)
Format NTSC/PAL
Resolutions 480i29/30; 576i25
Connector Circular MIL

AUDIO

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

METADATA INTERFACE

Protocol KLV/Clear
Format RS-232/Ethernet
Connector Circular Mil

CONTROL

Ports Two
Format RS-232: Terminal Emulation
Format TCP/IP: Web Browser/Telnet

POWER

Input 18-36VDC
Watts 10W
Connector Circular Mil

MECHANICAL

Size 3.5"W x 4.5" x 1.13" (88.9 x 114.3 x 25.58)
Weight 8oz (.227kg)

VIDEO COMPRESSION

Algorithm H.264 /MPEG-4 AVC (Part 10)
Format H.264 Baseline/Main/High Profiles
GOP Structure Inter/Intra; I/IP

AUDIO COMPRESSION

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

TRANSPORT STREAM

Ports One
Format Ethernet (UDP/IP)
Protocol ISO/IEC 13818-1
MPEG-2 Transport Stream
Data Rate 64Kbps to 15Mbps
Format 10/100 Ethernet IP
Configuration DHCP or Static Address
Selectable Ports
Unicast/Multicast
Connector Circular Mil

LATENCY

Encoder ~50ms

ENVIRONMENTAL

Temperature -40°C to +71°C
Altitude 35,000 Feet MSL
Humidity 95% RH, non-condensing
Vibration HALT Testing Profile
Shock 21.5g Peak, Half-sine, 8ms
Salt Fog MIL-STD-810 Method 509.4

Electromagnetic Environments

Radiated Emissions MIL-STD-461 RE102
Conducted Emissions MIL-STD-461 CE101
Conducted Power MIL-STD-461 CE102

Leads

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