

### FEATURES

- Real-time, secure, full-motion video over any digital or analog datalink
- H.264 video compression for full-motion video even at low bit rates (Optional MPEG-2)
- Multiple output interfaces (Pre-mod, UDP-IP, Synchronous Serial)
- Metadata Support (optional KLV Encoding)
- MISB/STANAG Compliant
- <100ms Latency
- Fully configurable network interface
- Data Rates from 64Kbps to 6Mbps
- Stereo/dual-channel audio inputs
- MPEG-1 Layer I/II Audio Compression
- RS-232 or Ethernet port configurable
- Compact, lightweight
- -20°C to +71°C Operation



Delta's Model 6005R H.264 Video Encoder provides for the transmission of full-motion video for ISR applications. Primarily designed for small aircraft, the 6005R is a rugged, compact unit with all the features of Delta's JITC certified video encoder products. These include video compression, metadata processing and transport stream multiplexing.

Utilizing MPEG-4 AVC (H.264) encoding, the 6005R 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 6005R also provides a pre-mod output for direct connection to existing analog video transmitters (i.e. FM). The encoder, combined with the companion 6105 decoder, converts these analog video links to digital formats with network distribution capabilities and without the need to replace or modify the transmitters and receivers. Standard Ethernet and synchronous serial interfaces also make these units "drop-ins" for digital datalink applications.

The 6005R is built around an advanced, high-speed DSP media processor working with fully optimized codecs. It is compatible with other Delta products and can be easily integrated with other manufacturers' standards-compliant equipment. Delta's technology has been integrated, tested, and flown in numerous applications with various airborne platforms and is compatible with MISB and STANAG standards.

A division of Delta Information Systems, Inc.

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Questi prodotti sono distribuiti e supportati in Italia da:

**Instrumentation  
Devices** 

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**VIDEO**

**Input/Output** Composite  
**Format** NTSC/PAL  
**Connector** 25p Pin, Micro-D

**AUDIO**

**Ports** Two  
**Channels** None, Left, Right, Stereo  
**Format** Single-ended Line Level  
**Levels** 2.8Vp-p (1Vrms)  
**Impedance** 10K Ohms  
**Connector** 25p Pin Micro-D

**METADATA INTERFACE**

**Protocol** KLV/Clear  
**Format** RS-232/Ethernet  
**Connector** 25 Pin Micro-D

**CONTROL**

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

**POWER**

**Encoder**  
**Input** 18-36VDC  
**Watts** 4W  
**Connector** 25 Pin, Micro-D

**TRANSPORT STREAM I/O**

**Ports** Three  
**Format** PCM/RS-422/UDP/IP  
**Connector** 25 Pin Micro-D

**SIZE**

**Encoder** 2" x 5" x 1"

**VIDEO COMPRESSION**

**Algorithm** H.264 /MPEG-4 AVC (Part 10)  
**Format** H.264 Baseline/Main Profile  
**Resolutions** D1/2CIF/CIF  
**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**

**Protocol** ISO/IEC 13818-1  
MPEG-2 Transport Stream  
Video/Audio/Data  
**Data Rate** 64Kbps to 6Mbps  
**Format** 10/100 Ethernet IP  
**Configuration** DHCP or Static Address  
Selectable Ports  
Unicast/Multicast

**LATENCY**

**Encoder/Decoder** <100ms

**ENVIRONMENTAL (Encoder)**

**Temp/Alt (Op)** DO-160D, Section 4, Category D2  
-20°C to +71°C

**Temp/Alt (Non-Op)** DO-160D, Section 4, Category D2  
-55°C to +85°C

**Humidity** DO-160D, Section 6, Category B  
5%-95% RH, non-condensing

**Vibration** DO-160D, Section 8, Category S,  
Figure 8-3, Profile M

**Shock** DO-160D, Section 7, Category A,  
Figure 7-2, Operational  
(6g, 11ms, sawtooth)



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