

MODEL 6020R

H.264 VIDEO / AUDIO ENCODER, AIRBORNE

FEATURES

- Real-time digital transmission of high quality video
- H.264 Baseline/Main Profile (ISO/IEC 14496-10)
- Video, audio, and data multiplexing
- NTSC/PAL
- Data rates from 64k to 6Mbps
- Low latency modes
- Multiple resolutions
- Stereo audio
- Synchronized Metadata
- Compact, flightworthy package

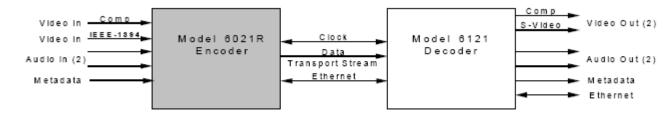


MODEL 6020R ENCODER

Delta's Model 6020R is an airborne encoder that compresses video and audio signals, multiplexing them with metadata and other system information for transmission to a remote decoder unit. The 6020R uses the H.264 (MPEG-4 Part 10) video compression algorithm to provide high-quality video even with large compression ratios. The H.264 standard is the latest compression algorithm and is designed to facilitate the transmission of full resolution, full frame rate, motion imagery in less bandwidth than its predecessors (Wavelet/MJPEG/MPEG-2).

The 6020R is easily integrated into most airborne telemetry systems. The standards-compliant transport stream is output on a synchronous serial interface (RS-422) or ethernet port (10/100 Base-T) for direct connection to the data link or recorder. The transport stream can be applied to one of Delta's H.264 decoders or played through an H.264-compliant software decoder.

Control of video, audio, and system parameters permit the user to optimize video performance for any given bandwidth. Control is provided through a Windows application via an RS-232 port or the embedded Web server.



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VIDEO INPUT Ports Input 1 Format Levels Connector Input 2 Format	Two NTSC/PAL Composite Comp: 1.0Vp-p/75 Ohms TNC IAW 1394-based Camera Specification, Version 1.3	AUDIO INPUT Ports Channels Format Levels Impedance Gain Connector	One None, Left, Left and Right* Balanced (Line Level) 2.8Vp-p (1Vrms) 10K Ohms 0 to 64 db* Circular MIL
Connector	Circular MIL	AUDIO COMPRESS	ION
VIDEO COMPRESS Algorithm (2)	I ON ISO/IEC 14496-10 H.264 Baseline/Main Profile ISO/IEC 13818-2	Algorithm Sample Rates Synchronization CONTROL	ADPCM 8K/16K/32Ksps Lip synchronized with video
Modes	MPEG-2 MP@ML H.264: I-Only/IP MPEG-2: I-Only/IP/IPB	Ports Port 1	Two
Resolution Frame Rate	D1/2CIF/CIF 1-30 (25 for PAL)	Protocol Levels Connector	Windows Application RS-232C Circular MIL
MULTIPLEX Protocol	ISO/IEC 13818-1 MPEG-2 Transport Stream Video/Audio/Data	Port 2 Protocol Platform Connector	TCP/IP Windows Circular MIL
TRANSPORT STRE Ports Interface 1 Levels Data Rate Connectors	AM Two Synchronous Serial(RS-530) RS-422 64Kb to 10Mbps Circular MIL	ENVIRONMENTAL Temperature Vibration Shock Humidity EMI/EMC	-40°C To +85°C MIL-STD-810F, Method 514.5 MIL-STD-810F, Method 516.5 MIL-STD-810F, Method 507.4 MIL-STD-461
Interface 2 Format Data Rate Configuration	10/100 Ethernet IP UDP/IP 64Kb to 10Mbps DHCP or Static Address Selectable Ports Unicast/Multicast	POWER Voltage Power Connector	+28VDC (IAWMIL-STD- 704/641) 7 Watts Circular MIL
Connector Circular MIL METADATA (USER DATA) Levels RS-232		SIZE Dimensions: Weight:	1.6"H x 4.5"W x 7"D 2.1 lbs.

Levels RS-232 Connector Circular MIL

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