

### FEATURES

- Real-time compression of HOTLink™ Protocol Video
- H.264 video compression for full-motion video even at low bit rates
- Up to 30 Frames per Second
- <100ms Encode Latency
- Integrated PCM Encoder
- Data Rates from 64Kbps to 10Mbps
- IRIG 106-99 Compliant Randomized NRZ-L Output
- Data Rates from 64Kbps to 10Mbps
- Error Tolerant Modes
- RS-232 or Ethernet port configurable
- Compact, lightweight Chassis
- -40°C to +71°C Operation
- Environmental/EMI IAW VTM Specifications



Delta's Model 6004R HOTLink™ Video Encoder provides for the transmission of video generated by sensors utilizing the HOTLink™ high speed serial protocol. The 6004R is a rugged, compact unit that is specifically designed for operation in the harshest environments, especially small platforms. The unit features Delta's standards-compliant H.264 video compression, transport stream multiplexing, and telemetry system friendly PCM encoding.

Utilizing H.264 (MPEG-4 AVC) encoding, the 6004R provides flexibility for optimizing video performance for any given bit rate. User-configurable parameters permit the user to adjust the video quality in accordance with mission requirements.

The 6004R is built around an advanced, high-speed, multi-media processor working with a fully optimized codec. Delta's technology has been integrated, tested, and flown in numerous applications with many airborne platforms and is compatible with standards-compliant decoders, including several Delta products.

The 6004R is easily configured via an RS-232 serial connection or Ethernet.

## HOTLINK H.264 VIDEO ENCODER, COMPACT/RUGGED

### VIDEO

**Input** HOTLink™ Serial Protocol  
**Format** NTSC/PAL  
**Resolutions** D1/Scaled  
**Connector** Circular MIL

### VIDEO COMPRESSION

**Algorithm** H.264 /MPEG-4 AVC (Part 10)  
**Format** H.264 Baseline/Main/High Profiles  
**Sampling** 8-Bit  
**GOP Structure** Inter/Intra; I/IP

### LATENCY

**Encoder** ~100ms

### TRANSPORT STREAM

**Ports** Two  
**Format** PCM/Ethernet (UDP/IP)  
**Protocol** ISO/IEC 13818-1  
MPEG-2 Transport Stream  
**Data Rate** 64Kbps to 10Mbps  
**Format** IRIG-106-99 (RNRZL)  
**Format** 10/100 Ethernet IP  
DHCP or Static Address  
Selectable Ports  
Unicast/Multicast  
**Connector** Circular MIL

### CONTROL

**Ports** Two  
**Format** RS-232: Terminal Emulation  
**Format** TCP/IP: Web Browser/Telnet  
**Connector** Circular MIL

### POWER

**Input** 18-36VDC w/ Reverse Voltage Protection  
**Watts** 10W  
**Connector** Circular MIL

### MECHANICAL

**Size** 3.5" x 3.1" x 1.2"  
**Weight** 9oz

### ENVIRONMENTAL

**Operating Temp** -40°C to +71°C  
**Altitude** -2000 to 50,000 Feet MSL  
**Humidity** 95% RH, non-condensing  
**Temp Shock** IAW the VTM Specification  
**Acceleration** IAW the VTM Specification  
**Vibration** IAW the VTM Specification  
**Shock** IAW the VTM Specification

### Electromagnetic Environments

**Radiated Emissions** MIL-STD-461 RE02 (Curve 2)  
**Radiated Susceptibility** MIL-STD-461 RS03  
**Conducted Emissions** MIL-STD-461 CE03  
**Conducted Susceptibility** MIL-STD-461 CS01  
MIL-STD-461 CS02

