

HE1000 HD News ENCODER

High-Definition Encoder



HIGHLIGHTS

- **ATSC or DVB compatible**
- **Supports 4:3 and 16:9 video aspect ratio**
- **Improved Low Bit Rate Picture Quality**
- **Integrated MPEG or Dolby AC-3 2.0 channel audio encoding**
- **Full Front panel control**
- **Two Audio pairs supported**
- **AES/EBU, Analog and Embedded audio in SDI and HDSDI**
- **Simple Browser based Remote Control**

DESCRIPTION

Tiernan's HE1000 HD News Audio and Video encoder utilizes the latest advanced Tiernan Technology to offer the first high definition video encoder specifically designed for demanding news gathering applications. With a large feature set in a small 1RU package, this encoder is the perfect choice for mobile HD.

Tiernan's PurePEG HD Technology features an innovative combination of video pre-processing and advanced encoding algorithms allow the HE1000 to be configured for ultra high-quality HD encoding and provides for improved picture quality, especially at lower HD bit rates.

Audio processing can be handled in either MPEG or AC3 2.0 formats. Analog, embedded and digital audio formats are supported.

The HE1000 can also be upgraded to also support SD video encoding.

The HE1000 is equipped with an embedded Web Browser Interface that allows for easy command and control programming. It also offers the options of RS-232 proprietary command line M&C, or SNMP via ethernet. Full local front panel control is always included as a standard feature.



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TECHNICAL SPECIFICATIONS

Audio:	<ul style="list-style-type: none"> AES/EBU Digital Audio Input - Qty 2, 75 Ohm BNC
Input:	<ul style="list-style-type: none"> Balanced Analog Audio - Qty 1, DB-9
Encoding:	<ul style="list-style-type: none"> Two channels (stereo pairs) total. Each channel independently configurable for: <ul style="list-style-type: none"> MPEG-1, Layer 2 Dolby® 2-channel encoding (AC-3 2.0)
Encoding Supported:	<ul style="list-style-type: none"> Flexible GOP Structures Low delay encoding mode available – standard feature
High Definition Video:	<ul style="list-style-type: none"> SDI (SMPTE-292M): Qty 1, 75 Ohm BNC SDI (SMPTE-292M): Qty 1, 75 Ohm BNC, active only when the unit is powered Tiernan's Proprietary PurePEG HD Artifact Reduction Technology
Input:	
Loop Through:	
Pre-Processing:	
Encoding:	<ul style="list-style-type: none"> One channel, whose source may be one of the following: <ul style="list-style-type: none"> HD SDI Input Internal Video Test Pattern Generator
Encoding Supported:	<ul style="list-style-type: none"> MP@HL 4:2:0 up to 80 Mbps (1920 x 1080i, 1440 x 1080i, 1280 x 720p) Flexible GOP Structures
Timing Reference/Frame Sync:	<ul style="list-style-type: none"> HD video channels may be resynchronized to one of the following timing references: <ul style="list-style-type: none"> Black Burst Input HD SDI input
Auxiliary Data:	<ul style="list-style-type: none"> Synchronous: 1 bps - 20 Mbps, RS-422, DCE, internal or external clock source Asynchronous: 1200 - 38400 bps, RS-232, DCE
Transport Stream Output:	<ul style="list-style-type: none"> ASI Output, 1 Mbps - 216 Mbps: Qty 2, 75 Ohm BNC
Management & Control:	<ul style="list-style-type: none"> Embedded Web Browser Interface for command & control RS-232 proprietary command line monitor & control Proprietary command line monitor & control over Telnet Two independent service ports for field service, RS-232 Fully featured front panel
Physical:	<ul style="list-style-type: none"> 1U — 4.4cm high, 43.8cm wide, 48.3cm deep (1.75" x 17.25" x 19") Weights less than 6.8kg (15 lb.)
Power Supply:	<ul style="list-style-type: none"> Auto-ranging 90 to 132 VAC and 180 to 240 VAC; 50/60 Hz universal power supply 75 Watts typical Optional DC power supply 9 to 18 VDC or 18 to 36 VDC available
Operating Conditions:	<ul style="list-style-type: none"> Ambient temperature: 0° to +50°C

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