



HIGH DEFINITION & STANDARD DEFINITION SDI **HDE-3000** CAPTION ENCODER MODEL HDE-3000

VERSATILE PLATFORM FOR HD DATA ENCODING AND GRAPHICS GENERATION



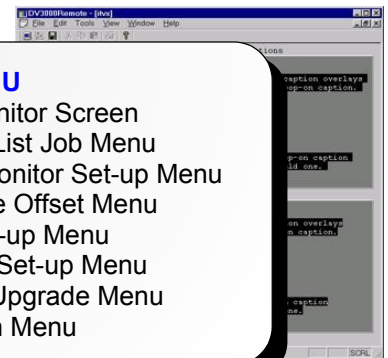
FEATURES

- ◆ Networkable
- ◆ HD & SD SDI I/O
- ◆ USB, 2 Front Panel
- ◆ Ideal for Broadcast or Post
- ◆ Field Ungradable Software
- ◆ Up-Convert 608 to 708 captions
- ◆ Built-in LTC Time Code Reader
- ◆ VGA monitor to Preview Captions
- ◆ Two independent I/O comports
- ◆ Full Screen Character Generator (Subtitles)
- ◆ No PC or Caption/Subtitle Encoding Software Required
- ◆ Reads Caption Files Directly From Floppy, Server or USB

The HDE-3000 is
more than a HD/SD
Closed Caption
Encoder/Decoder

MENU

Status Monitor Screen
Main Job List Job Menu
Caption Monitor Set-up Menu
Time Code Offset Menu
VANC Set-up Menu
Com Port Set-up Menu
Software Upgrade Menu
Shut-down Menu



The HDE-3000 is a high definition encoder for professionals, also supports SDI standard definition. This unit is setting the pace for standards to come in the future. For today's use, the HDE-3000 will accomplish all requirements for 1080i, 1080p and 720p, and SDI. The unit will generate slates, bugs, TV Ratings Icons, Subtitling while encoding closed caption data. The HDE-3000 encodes data into the vertical Ancillary portion of SMPTE 292M HD/SDI video per SMPTE 334. It also keys text and graphics images into the active portion of SMPTE 292M video in 10 bit Y Cr Cb formats. The unit supports all of the ATSC video standards.

The HDE-3000 reads all known closed caption files formats and is able to translate EIA-608 captions to the new EIA-708 file formats as they emerge.

The HDE-3000 is constructed in a modular concept for future updates. All of the components plug into industry standard PCI slots. The modular architecture allows for easy upgrades in the field. There are available slots that will provide features for advanced operation. The firmware is easily upgraded through the front panel, 3.5" floppy, or ethernet.

The HDE-3000 meets the strictest requirements for broadcast use. A power by-pass relay provides signal pass-through in the event of AC power outage. An optional fault tolerant power supply is available.

The HD video formats covered are: 1080i 25 & 29.97/30; 1080p 25 & 29.97/30; 1080p 23.98/24; 720p 59.94/60. SDI standard definition for 525 and 625 are standard operational systems.

ADDITIONAL FEATURES

1. PCI backplane architecture
2. Intel Pentium III processor
3. 20 Gbyte internal hard drive for storing job files
4. Graphics jobs invoked from script or subtitle files
5. Closed caption jobs may be invoked from script files
6. Future software upgrade, USB Port for loading jobs and software updates
7. Optional hot swappable redundant power supply for broadcast applications

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HDE-3000 HIGH DEFINITION CLOSED CAPTION ENCODER & SDI SPECIFICATIONS

HD VIDEO INPUT

Standard: SMPTE 292M
 Number of Inputs: One
 Connectors: BNC True 75 Ohm
 Equalization: Automatic, up to 250 feet at 1.5 Gb/s

HD VIDEO OUTPUT

Standard: Same as input
 Number of Output: One Program Output, Power By-pass Protected
 Connectors: BNC True 75 Ohm
 Signal Level: 800 mV, nominal
 DC Offset: 0 Volts, +/- 0.5 V
 Rise Time: 200pS, Nominal
 Overshoot: <10%
 Wideband Jitter: <0.2UI

SD VIDEO INPUT

Standard: SMPTE 259M-C 270 Mb/s
 Number of inputs: One
 Connectors: BNC True 75 Ohm (Shared with HD Input)
 Equalization: Automatic, up to 500 feet at 1.5 Gb/s

SD VIDEO OUTPUT

Standard: SMPTE 259M-C 270 Mb/s
 Number of Outputs: One Program Output, Power By-pass Protected
 Connectors: BNC True 75 Ohm
 Signal Level: 800 mV, nominal
 DC Offset: 0 Volts, +/- 0.5 V
 Rise Time: 200pS, Nominal
 Overshoot: <10%
 Wideband Jitter: <0.2UI

COMMUNICATIONS

Serial Ports: One RS-232
 Modem: One Internal, Optional
 Ethernet: One, RJ-45 Connector, IEEE
 USB: Two Front Panel

ENVIRONMENTAL

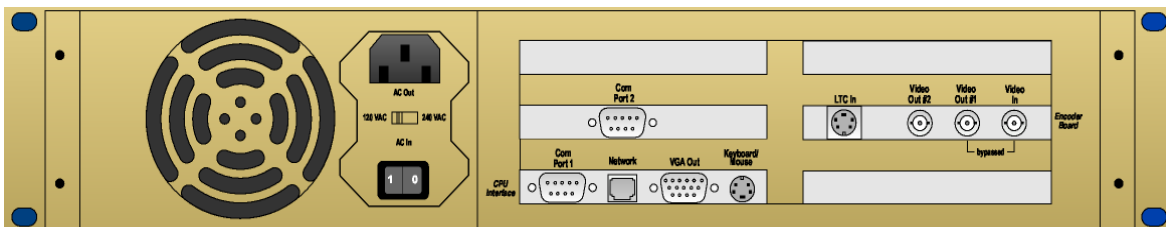
Temperature 0 to 50 C ambient
 Humidity 10% to 90% non-condensing
 Power 15 Watts

MECHANICAL

Depth 14 Inches
 Width 19 Inches
 Height: 3.5 Inches
 Weight 15 Pounds.

FRONT PANEL LED INDICATORS

Power Green/ power on/off
 Status Indication: Six LED
 Menu Selection: Four plus Enter
 Reset: One Momentary
 USB: Two USB Ports
 Fan: Fan Grill with air filter



PROFESSIONAL SERIES--
modular system products--by LINK