



### Features:

- 3GB/HD/SD-SDI
  - XDS RAM (V-Chip)
  - Data Recovery
  - GPI Remote "Legalizer"
  - 2 CEA-708 Services
- Converted from 608
- Field Upgradeable
  - VANC Line Selection
  - Optional Dual Supplies
  - IP Captioning
  - 4 Port Communications 2  
Serial, 2 IP
  - Decodes CC1-CC4 or  
S1-S6
  - Power off Bypass

The SCE-492 is a three gigabits level B, high definition, or standard definition serial digital interface closed caption encoder or shortened to 3GB/HD/SD-SDI CC Encoder. It will accept 3GB/HD/SD-SDI transport streams and give three closed caption encoded outputs of the same format as the input with the option of one of them being decoded. The SDI outputs are re-clocked making the SDI output eye pattern generally better than the input. It is a better re-clocker than most re-clocking Distribution Amplifiers (DA). The unit will pass ANC data untouched including audio to the output.

### Four Communication Ports

The SCE-492 has four communication ports, two serial RS-232 ports, both with adjustable baud rates, and two ports that are tunneled to the Ethernet connector. This allows two IP caption connections at one address. It also has the ability to redirect or resend the Ethernet data out one of its serial ports. All four communication ports are always active so they will not have to be turned on or off. Up to four captioners can be connected to the unit and swap control of the encoder just by initializing it. This could be useful when doing live captioning for long periods of time.

### GPI Remote Legalizer

The SCE-492 has a GPI remote used to active Weather Lift or what is now being referred to as a "Legalizer". With a menu that allows you to select the amount of lines to be lifted. You can raise the lower 4 lines up 2, 3, or 4 lines or raise all lines to the top 4 lines. Recently the FCC has mandated that captions are not to be displayed over things like people's names, school closings, and so on. This has become a major issue with broadcasters.

### IP Captioning

The SCE-492 is IP captioning ready, IP captioning is becoming the preferred method of Captioners and broadcasters for live captioning. There are many reasons that IP captioning has become the preferred method of live captioning, the most notable being the elimination of plain old telephone (POTs) lines as these types of lines are becoming less available and less reliable. No modems, no phone lines, no long distant charges, and no caption server fees means less equipment and less cables that can fail. For the most part the captioner and broadcaster would be using Internet connections they already have.

### Decoder with Data Recovery

The SCE-492 has a decoded output and data recovery for quality monitoring. The options for the decoder are one of the following; CC1-CC4, S1-S6, or off. The decoder also has the ability to send caption data out (data recovery) one of its four ports. A new mode has been added to data recovery called Alternate codes. In this mode the unit sends out CEA-708 Character set (similar to ASCII) and a line feed and carriage return when it detects a new line. This is done to make the recovered data more legible.

### Exceptional Technical Support

The SCE-492 dubbed the "Superior Encoder" is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

# SCE-492

## SDI Caption Encoder Specification Sheet

MADE IN THE USA



### 3G/HD/SD Video Input:

SMPTTE: ..... S274 (1080P, 1080I, 1080S), S296 (720P), and S259 (NTSC & PAL)  
 Number of Inputs: ..... One  
 Connectors: ..... BNC True 75 Ohm  
 Equalization: ..... Automatic, Approx. 100 feet at 1.5 Gb/s, Approx. 500 feet at 270 Mb/s

### 3G/HD/HD Video Outputs:

Standard: ..... Same as input  
 Number of Output: ..... Three, One Power off Bypass Protected  
 Connectors: ..... BNC True 75 Ohm  
 Signal Level: ..... 800 mV, Nominal  
 DC Offset: ..... 0 Volts, +/- 0.5 V  
 Rise Time: ..... 200pS, Nominal  
 Overshoot: ..... <10%  
 Timing Jitter: ..... <1.0U  
 Wideband Jitter: ..... <0.2UI

### Communications/Other Connectors:

General Purpose Interface (GPI): ..... One Open/Closed Dry Contact  
 Looping Reference (Future Use): ..... Two BNCs  
 Serial Ports: ..... Two RS-232 DE-9 One Male and One Female  
 Ethernet: ..... One, 8P8C modular connector, IEEE  
 External Modem(s): ..... Optional

### Environmental/Power:

Temperature: ..... 0 to 50 C ambient  
 Humidity: ..... 10% to 90% non-condensing  
 Power: ..... 5 VDC External Supply Rated at 25 Watts  
 Dual Supplies: ..... Optional

### Mechanical:

Depth: ..... 10.5 Inches  
 Height: ..... 1.75 Inches  
 Width: ..... 19 Inches  
 Weight: ..... 4 Lbs.

The manufacture reserves the right to change specifications without notice