


**LINK ELECTRONICS, INC.**


# CAPTION ENCODER/DECODER SD SDI/ANALOG

## MODEL PTC-892



### FEATURES

- ◆ V-Chip compatible & TSID ready
- ◆ Dual RS-232 com ports
- ◆ LTC input & "B" Type USB port
- ◆ Detailed front panel display with menus
- ◆ Data Recovery of both caption & text
- ◆ Weather Lift up to 4 lines
- ◆ SD SDI/analog encoded outputs
- ◆ User selectable data recovery modes
- ◆ Firmware version viewed from front panel
- ◆ User, power-up, and factory default settings
- ◆ SD analog decoded outputs including component
- ◆ Optional Modem w/ RI, OH, and CD indication
- ◆ User selectable encode modes, including newswire
- ◆ SD SDI to SD analog conversion
- ◆ Auto Detection of NTSC/PAL
- ◆ Encodes both caption and text

The PTC-892 is captioning encoder, decoder, and data recover capable of inserting, decoding, and recovering data of captions and text for NTSC/PAL for the following signals: composite, Y/C, S-video, RGB, YUV, and SDI.

Captioning and text may be inserted (encoded) in either field of the Vertical Blanking Interval (VBI). That inserted data may be displayed as open captions through the decoder output(s). In addition, caption data on the incoming or outgoing video may be recovered from either field of the VBI. This data can be sent to another encoder, to a language translation machine or program then re-encoded, or to be captured by a program to be manipulated. Each of these important functions (encoding, decoding, and data recovery) may be done simultaneously. Each of these functions can be controlled by the front panel menus or by serial communications.

Inputs and outputs are provided for both SD SDI and SD analog, including composite, Y/C, S-video, YUV and RGB. The power loss feature bypasses the composite analog and SDI when AC power to the PTC-892 fails.

In response to the FCC mandated requirements, captions shall not interfere with emergency crawls. The PTC-892 incorporates a weather-lift feature that moves the caption up to 4 lines, whenever a contact-closure is detected on its GPI input. The number of lines can be controlled by the front panel or by software commands.

The serial communication port(s) allow for remote captioning. The dual ports allow multiple

encoders to be controlled at once, a back up communication port, or to do data recovery out of its ports. Port 1 is either a "B" type USB port or RS-232 port. Port 2 is either a RS-232 port or an optional modem. Both ports can be set to have different baud rates (1200, 2400, 4800, 9600, 19200, 38400) independently through the front panel menus.

RS-232 port 2 will not go down to a baud rate of 1200, because new modems will not allow this. When the optional modem goes off-hook, it takes priority over the RS-232 port 2. The RS-232 port 2 control is restored when the modem hangs up.

Front panel LEDs show the unit status with NTSC/PAL detection, modem status, encode on/off, video presence detection, negative pedestal on/off, serial data detection, and LTC detection. Front panel push buttons allow the user to select input, select output, perform an encoder test, and bypass the encoder.

The PTC-892 is V-chip technology compliant and TSID ready. Link Electronics is incorporating this technology in the firmware of the PTC-892. The PTC-892 handles automatic repetition of the "V-Chip" data and can interweave it with existing line 21 closed captioning data.

The PTC-892 has a Longitudinal Time Code (LTC) input for precise caption timing with the video. A front panel Vacuum Fluorescent Display (VFD) shows various functions and menus. A rotary optical encoder, front panel knob, provides easy selection of the various operating and set-up functions.

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# MODEL PTC-892 CAPTION ENCODER/DECODER DIGITAL AND ANALOG SPECIFICATIONS

## VIDEO INPUTS:

SD SDI:  
Connector ..... one, BNC  
Standard ..... SMPTE 259M-C 270Mb/s  
Impedance ..... 75 Ohm, terminated  
Signal Level ..... 800mV  $\pm$  10%  
Return Loss ..... >18db to 270 MHz

SD analog:  
CV, Y and G (with sync) ..... one, BNC  
C, U and B ..... one, BNC  
V and R ..... one, BNC  
S-video ..... one, mini-din  
Impedance ..... 75 Ohm, terminated  
CV, Y and G (with sync) ..... 1Vpp  $\pm$  3db  
R, B, U and V (100% Sat) ... 0.7Vpp  $\pm$  3db  
C (100% Sat) ..... 0.8Vpp  $\pm$  3db  
Return Loss ..... 40db  
Maximum DC on input ..... 3.2V DC

## MISCELLANEOUS INPUTS:

Longitudinal Time Code . +4db analog signal  
Weather Lift GPI .... activated when shorted  
AC power ..... 85-264VAC 50/60Hz

## REAR PANEL CONNECTORS:

Video ..... thirteen, BNC  
S-video ..... two, mini-din  
LTC ..... XLR plug  
Weather Lift GPI ..... 3.5 mono audio plug  
RS-232 ..... two, 9 pin D connectors  
Modem(optional) ..... RJ11  
USB ..... "B" type plug  
Power ..... IEC-320 male

## FRONT PANEL CONTROLS:

AC power ..... On/Off  
Menu knob ..... Push/rotary  
Input Selection ... six, push/push momentary  
Output Selection ..... Push/push momentary  
Test ..... Push/push momentary  
Bypass ..... Push/push momentary

## VIDEO OUTPUTS:

Encoder outputs:  
SD SDI:  
Connector ..... one, BNC  
Standard ..... SMPTE 259M-C 270Mb/s  
Impedance ..... 75 Ohm, terminated  
Signal Level ..... 800mV  $\pm$  10%  
Propagation Delay ..... 1200ns  $\pm$  5%

SD analog:  
CV, Y and G (with sync) ..... two, BNC  
C, U and B ..... one, BNC  
V and R ..... one, BNC  
S-video ..... one, mini-din  
All analog outputs ..... unity  $\pm$  5%  
Impedance ..... 75 Ohm  
Tilt ..... <1% ref. 30Hz square wave  
Hum ..... >70db, 1Vpp  
Overshoot and Ringing ..... <1%  
Propagation Delay ..... 180ns  $\pm$  5%  
Signal to noise ratio ..... >50db  
Differential gain ..... <1%  
Differential phase ..... <1°  
DC Offset ..... <  $\pm$  0.2V DC  
Frequency Response .... -3db to 26MHz

## Decoder outputs:

SD analog:  
CV, Y and G (with sync) ..... two, BNC  
C, U and B ..... one, BNC  
V and R ..... one, BNC  
All analog outputs ..... unity  $\pm$  5%  
Impedance ..... 75 Ohm  
Character Level(CV,Y,R,G & B) .. 90 IRE  
Background Level(CV,Y,R,G & B) 10 IRE  
Background Insert(C,U and V) ... 0V DC

## ENVIRONMENTAL

Temperature ..... 0° to 50°C (ambient)  
Humidity ..... 10% to 90% non-condensing  
Power ..... 24 Watts

## MECHANICAL:

Height ..... 1.75 inches  
Width ..... 19 inches  
Depth ..... 10.75 inches  
Weight ..... 5 Lbs



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