# *LINK ELECTRONICS, INC.*

# SD SDI VIDEO
# CLOSED CAPTION ENCODER/DECODER
## MODEL PDP-886

MADE IN THE USA

## FEATURES

- ◆ **Dual Microprocessor**
- ◆ **EDH Processing**
- ◆ **SD SDI Input/Output**
- ◆ **Optional, Dual Modem**
- ◆ **RS232 OR RS422 Data Inputs**

- ◆ **Encode/Decode Field 1 and Field 2**
- ◆ **Two Encoded Serial Digital Outputs**
- ◆ **Two Open-Caption Decoded SD Analog**
- ◆ **Two Closed Caption Encoded SD Analog**
- ◆ **V-Chip Compatible**

**SD SDI PDP-886.** When the PDP-886 is used with closed caption software, the unit inserts Closed Caption data into a component serial digital data-stream. There are two encoded serial digital outputs plus four SD Analog NTSC/PAL outputs. One set of the SD Analog outputs are open caption and the second SD Analog set of outputs are closed caption.

Serial control is handled via two RS-232/422 ports, selectable by an internal switch. A front panel LCD indicates Encode, Standard, Decode and Baud Rate. There are two microprocessors incorporated, two ports for each microprocessor (RS-232/422 and modem). The SD SDI signal will bypass in case of AC failure on one output.

An encoded test message may also be selected from the front panel, showing Link as the manufacturer name, model number and firmware version. A total of nine data channels for video line 21 may be selected: CC1, CC2, T1, and T2 in Field 1 along with CC3, CC4, T3, T4, and XDS in Field 2.

A built-in EDH (Error Detection and Handling) processor can monitor the incoming signal for impairments and insert new EDH data. This function will insure that the output EDH Checksum will reflect the new Line 21 waveform. An optional internal telephone modem is available for each processor. Three LED's on the front panel indicate RI, OH, and CD.

# MODEL PDP-886
# CLOSED CAPTION ENCODER, DECODER
# SPECIFICATIONS

**INPUT:**
Number: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . One (1)
Standard: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . SMPTE 259M-C 270Mb/s
Connector: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω BNC
Impedance: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω ±1%
Return Loss: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . >18dB to 270MHz
Signal Level: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 800mV ±10%

**SD SDI OUTPUT:**
Number: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Two (2)
Standard: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . SMPTE 259M-C 270Mb/s
Connector: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω BNC
Impedance: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω ±1%
Return Loss . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . >18dB to 270MHz
Signal Level: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 800mV ±10%

**SD ANALOG DECODER OUTPUT:**
Number: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Two, SD SD Analog NTSC/PAL Composite
Level: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1 Vpp
Impedance: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω ±1%
Connector: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 75Ω BNC
Standard: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . NTSC/PAL COMPOSITE
SNR: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . >65dB
Differential Phase: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . <1.0°
Differential Gain: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . <1.5%

**DATA INPUTS, Common to Both Versions**
Number: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4
RS-232/422: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Two, 9-pin D Sub
Modem: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Two, RJ-11
Protocol: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1200,n,8,1
Baud Rate: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1200, 2400, 4800, & 9600

**FRONT PANEL:**
AC Power: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ON/OFF
By-Pass: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Push/Push, Maintained
Test: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Push/Push, Momentary
Three Position DIP Switch: . . . . . . . . . Selects Baud rate of 1200, 2400, 4800 or 9600, plus pedestal
LED Indicators: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Video Presence, RS232 Data Presence, Pedestal
Modem LED's: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . RI, OH, CD, Each Modem
LCD Display: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Encoding Mode, Field 1 or Field 2
Decoding Mode: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . CC1, CC2, T1, T2, CC3, CC4, or XDS
Standard: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . NTSC or PAL
Baud Rate: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1200, 2400, 4800 & 9600

**ENVIRONMENTAL:**
Temperature: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0° to 50°C Ambient
Humidity: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 10% to 90% non-condensing
AC Input: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 85 to 265 VAC, 50/60Hz
Power: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 36 VAR

**MECHANICAL:**
Height: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1.750"
Width: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 19"
Depth: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12"



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