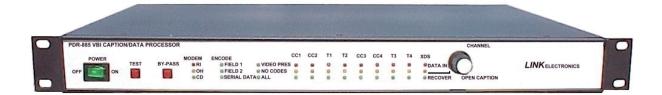


## VBI CAPTION/DATA PROCESSOR ENCODER/DECODER Model PDR-885





## **FEATURES**

- ◆ Encode, Data Recovery
- ♦ Field 1 or Field 2
- **◆** Caption & Text
- **◆** Decoder Output
- **♦** Optional Modem

The PDR-885 is a Closed Caption Encoder with an integral Decoder for inserting caption and text data on Line 21 of the NTSC signal. However, this important function is only the beginning of the PDR-885 capabilities.

Caption and Text data may be inserted in either field of the Vertical Blanking Interval. In addition, data on the incoming video signal may be recovered from either field of the VBI. This incoming data may be displayed as Open Captions, using the built-in Closed Caption Decoder, and captured by a computer utilizing the PDR-885's serial data port. Each of these important functions, Encoding, Decoding, and Data Recovery may be done simultaneously.

The Closed Caption Decoder's functions may be controlled from the front panel while the Encoder and Data Recovery functions are controlled via the serial data port. The video data path approaches perfection, with differential phase and gain errors less than 0.1° and 0.1% respectively. Video bandwidth is >26MHz while Signal to Noise exceeds 60dB. Inputs and outputs are provided for composite NTSC video as well as Component (R-Y/B-Y/Y) and S-Video.

- ♦ Y,R-Y,B-Y Input & Output
- ◆ Two Composite Outputs
- ◆ S/VHS Input & Output
- ♦ RS-232C Controlled, RS-422 Option
- ♦ V-Chip Compatible

If composite video is used, a high performance relay provides power-off by-pass of the program video. For remote captioning applications, a second serial port is available as a modem input. Both serial ports may be configured for RS-232 or RS-422 I/O, with optional plug-in PCB. An internal jumper allows baud rate selections of 1200 to 9600 bps. A modem and computer may be connected simultaneously to process local and remote caption data, only one active at a time.

Front panel LED's show the unit status and the presence of data on the incoming video. A pair of front panel push-buttons allow the user to run an encoded test message or to place the unit in bypass mode.

The PDR-885 is ready for V-Chip technology. This technology will allow parents to block violent or otherwise offensive television programming from their TV sets. LINK Electronics is incorporating this technology in the firmware of the PDR-885. The PDR-885 handles the automatic repetition of the "V-Chip" data and can interleave it with existing Line 21 Closed Caption data. An optional plug-in modem is available that operates at 1200 or 2400 baud.

## MODEL PDR-885 VBI CAPTION DATA PROCESSOR SPECIFICATIONS

INPUT:	S-VHS Video:
Composite Video:	Level:
Level: 1.0Vpp ±6dB	Y: 1Vpp ±6dB
Impedance: $75\Omega$ , Terminated	C: 0.6Vpp Nominal
Connectors:	Impedance:
Return Loss: 40dB	Bandwidth:
Maximum DC on Input: 4VDC	Connectors: 4 Pin Mini DIN
Common Mode Range: 8Vpp	
ээн ээг ээг эг э	DECODER:
S/VHS:	Output: Two
Level: Y Channel: 1.0 Vpp ±6dB	Level: Unity Gain ±6dB
Level: C Channel: 0.6Vpp, Nominal	Character Video: 90 IRE
Connector: 4 Pin Mini-DIN	Character Background: 10 IRE
Impedance:	Frequency Response:3dB to 26MHz
impodanos 7022 forminated	Differential Gain <0.1%
Y, R-Y, B-Y:	Differential Phase <0.1°
Level: Y Channel 1.0 Vpp ± 6dB	DC Offset
Level: R-Y Channel BETA or MII	Line Rate Tilt: <0.1%
Level: B-Y Channel BETA or MII	Field Rate Tilt: <0.1%
Connectors: BNC	1000 10
Impedance	FRONT PANEL CONTROLS:
impedance 1322, reminated	AC Power: On/Off
OUTPUTS:	By-Pass Push/Push, Maintained
NTSC Video:	Test: Push/Push, Momentary
Level: 1Vpp ± 6dB	LED's, 36 total: Video Presence
Insertion Gain: Unity	RS-232 Data In
	Field 1 & Field 2
Impedance:	
Connectors:	REAR PANEL:
Bandwidth:	Modem Connection: 9 Pin D wired as DTE
Tilt: <1% ref. 30Hz square wave	Computer Connection: 9 Pin D wired as DCE
Hum:>70dB, 1.0Vpp	Baud Rate: Standard 1200, 8,N,1
Overshoot & Ringing:	2004 Nato: 11111111 Otanida 1200, 0,11,1
Propagation Delay: 30nS ±5%	ENVIRONMENTAL:
Timing:	Temperature: 0° to 50° C (ambient)
S/N Ratio:	Humidity: 10% to 90% non-condensing
Differential Gain:	Power: 8VAR
Differential Phase: <0.1°	AC Input: 120/240VAC (±10%) 50/60Hz
DC Offset:	(2.073) 00,001
DO 011301	
Y,R-Y, B-Y:	MECHANICAL:
Y Channel: 1.0 Vpp ±6dB	Height: 1.75 inches
R-Y Channel: BETA or MII	Width:
B-Y Channel: BETA or MII	Depth: 8 inches
Bandwidth:	Weight: 4.75 Lbs.
Connectors: BNC	J
Commodoro	
NTSCY R.Y B.Y SVHS OUTPUT R	MODEM DECODER MADE IN USA



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