



**LINK ELECTRONICS, INC.**

## CHARACTER GENERATOR CAPTION DECODER MODEL PDR-870



### FEATURES

- ◆ Caption Decoder
- ◆ Data Recovery Decoder
- ◆ Character Generator Decoder
- ◆ TV Ratings Monitor
- ◆ NTSC or PAL (Stable Source)
- ◆ Composite or S-VHS Input
- ◆ High Impedenced Loop
- ◆ One RU Chassis
- ◆ S/N Ratio >60dB
- ◆ Dif Gain <0.1%
- ◆ Dif Phase <0.1°
- ◆ RS-232
- ◆ 4 Caption Channels
- ◆ 4 Text Channels
- ◆ XDS Channel
- ◆ Drop Shadow
- ◆ Extended Character Set
- ◆ Box Character Keying
- ◆ Internal or External Video
- ◆ Internal Video Generator
- ◆ Background Adjust

The PDR-870 is a high performance Closed Caption Decoder for the NTSC and PAL systems. It is capable of processing and displaying all standard closed caption format transmissions--including the EIA-608 Extended Character Set--in the manner of a typical closed caption decoder. A stable input video source is required.

Nine standard data channels are supported by the PDR-870: Captions channels 1 thru 4 (CC1-CC4), Text channels 1 thru 4 (T1-T4) and Extended Data Services (XDS). The various decoding channels are selectable by four front-panel toggle switches. Additional front-panel toggle switches provide NTSC/PAL video standard selection, drop-shadow or box character keying, and internal/external video. The internal video function allows the PDR-870 to generate its own video as a medium for producing open captions.

In addition, the PDR-870 can accept an RS-232 data stream and directly produce open captions, serving as a "character generator decoder." Along with it's powerful decoder functions, the PDR-870 can serve as an accurate "V-Chip" ratings monitor. All rating information described by EIA-744 may be displayed on-screen by the PDR-870. Both TV Parental Guidelines and Motion Picture Association of America (MPAA) ratings are supported.

The PDR-870 can recover incoming Line 21 data and send it to a computer terminal via the RS-232 port. This data may be recovered with or without the embedded closed caption control codes.

The PDR-870 can also perform a unique data conversion to reveal the "non-printing" characters that are part of the closed caption control codes.

Designed with the professional user in mind, the PDR-870 processes baseband video in either composite or S-Video formats. A rear-panel push-button switch is used to select the input/output format. The selected video mode is displayed at the front panel by a pair of green LEDs.

The composite video format uses a single high-impedance, looping input with two outputs. The S-Video format can use standard 4-pin mini-DIN connectors or BNCs for its input/output. The video performance is outstanding with differential phase and gain errors limited to less than 0.1° and 0.1% respectively.

The un-weighted signal-to-noise ratio approaches 70dB. AC-Coupled, complementary differential input amplifiers assure high common mode noise rejection while discrete phase-linear keyers provide clean insertion of the decoded characters into the video image.

Packaged in Link's 1RU 800-Series chassis, the PDR-870 is both rugged and reliable. All Link Electronics products are covered by one of the best warranties in the industry, 10-years including parts and labor. High performance, flexibility, and economy are equally represented in the PDR-870 CG, Data Recovery Decoder .

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# MODEL PDR-870 SPECIFICATIONS

## COMPOSITE INPUT:

Video Level: ..... 1.0Vpp  $\pm$ 6dB(stable source)  
Impedance: ..... >18k $\Omega$  Looping  
Connector: ..... BNC  
Maximum DC on Inputs: .....  $\pm$ 6.0VDC  
Common Mode Range: ..... 5Vpp  
CMRR @60Hz: ..... >50dB

## COMPOSITE OUTPUTS:

Number: ..... Two  
Connector: ..... BNC  
Level: ..... Unity Gain  
Character Video: ..... Adjustable, preset to 90 IRE Units  
Character Background: ..... Adjustable, preset to 10 IRE Units  
Impedance: ..... 75 $\Omega$   $\pm$ 1%  
Frequency Response: .....  $\pm$ 0.1dB at 15MHz  
..... -0.5dB at 17MHz  
..... -1.0dB at 18.5MHz  
..... -3.0dB at 26MHz  
Differential Gain: ..... 0.10%  
Differential Phase: ..... 0.10 $^\circ$   
Propagation Delay: ..... 19ns  $\pm$ 3  
Hum and Noise: ..... >65dB, unweighted  
DC Offset: ..... <2mV, Clamped  
Line Rate Tilt: ..... <0.1%  
Field Rate Tilt: ..... <0.1%

## S-VIDEO INPUT:

Y Level: ..... 1 Vpp  $\pm$ 6dB  
C Level: ..... 0.6 Vpp Nominal  
Impedance: ..... 75 $\Omega$   $\pm$ 1%  
Connector: ..... Four Pin Mini Din or One BNC pair (Y & C)

## S-VIDEO OUTPUT:

Number: ..... Two, one 4 Pin Mini Din & One BNC pair (Y & C)  
Y Level: ..... 1 Vpp  $\pm$ 6dB  
C Level: ..... 0.6 Vpp Nominal

## DATA INPUT

NUMBER ..... One (1)  
STANDARD ..... RS232C  
CONNECTOR ..... 9-pin Subminiature D  
PROTOCOL ..... Selectable, 1200 to 9600,n,8,1

## ENVIRONMENTAL:

Temperature: ..... 0 $^\circ$  to 50 $^\circ$ C ambient  
Humidity: ..... 10%/90% non-condensing  
Power: ..... 9.5 VAR  
AC Voltage: ..... 120/240 VAC  $\pm$ 10%, 50/60Hz

## MECHANICAL:

Height: ..... 1.75 inches  
Width: ..... 19 inches  
Depth: ..... 7.5 inches  
Weight: ..... 2lbs., 9oz.

## PROFESSIONAL SERIES--

stand-alone system products--by **LINK**

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