

PDR-870 CHARACTER GENERATOR CAPTION DECODER



FEATURES

- * Caption Decoder
- * Data Recovery Decoder
- * Character Generator Decoder
- * TV Ratings Monitor
- * NTSC or PAL
- * 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.

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 .

PDR-870 SPECIFICATIONS

COMPOSITE INPUT:

Video Level: 1.0Vpp \pm 6dB
Impedance: >18k Ω Looping
Connector: BNC
Maximum DC on Inputs: \square 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 Ω \square 1%
Frequency Response: \square 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 \square 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 Ω \square 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 \square 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 \square 10%, 50/60Hz

MECHANICAL:

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

LINK ELECTRONICS, INC.

2137 Rust Avenue
Cape Girardeau, MO 63703
Phone: 573 334 4433
FAX: 573 334 9255

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