



CLOSED CAPTION ENCODER MODEL PCE-845



FEATURES

- ◆ Line 21 Field 1
- ◆ Line 21 Field 2
- ◆ Caption & Text
- ◆ Channel 1 & 2
- ◆ News Wire

The PCE-845 is a Closed Caption Encoder for Inserting Caption and Text data on line 21 of the NTSC signal. The PCE-845 will insert four channels of data that are multiplexed into the vertical interval on line 21 of field one. The four channels of line 21 are described as Caption Channel One, Caption Channel Two, Text Channel One, and Text Channel Two.

The PCE 845 also processes data on Line 21 of field two to meet the new revised FCC specifications. To meet future requirements, the PCE- 845 is capable of inserting data on lines 10 through 25. A single internal jumper selects correct line placement. The unit is compatible with PAL closed caption, and caption data is usually inserted on Line 22 of field one. Line voltage operation is recommended for 115/240VAC, 50/60Hz, internally selected. The input signals are composite video, S/VHS, or Y, R-Y, B-Y.

- ◆ NTSC Input
- ◆ S/VHS Input & Output
- ◆ RS-232C Controlled
- ◆ Y, R-Y, B-Y Input & Output
- ◆ Two Composite Outputs

There are two composite video outputs. If a component format is used, the delay of each signal path is carefully matched, providing transparent thru-put. An RS-232C Input/output data port is provided on the rear panel that operates from 600 to 4800 baud (jumper selected). A second data port can accommodate an external modem. A switch on the front panel labeled "TEST" places a test message on line 21 to confirm proper operation of the encoder. A modem and computer can be connected to the PCE-845 simultaneously to receive local and remote caption data.

Two front panel LED's indicate the operation in field one or field two. Other status indicators confirm the presence of input video and RS-232. By-pass mode may be selected from the front panel, by software commands or via remote control. By-pass is transparent, and will not glitch the video signal when selected.

PCE-845 CLOSED CAPTION ENCODER

SPECIFICATIONS

INPUT:

Composite Video:

Level: 1.0 Vpp \pm 6dB
Impedance: >100K Bridging
Connectors: BNC
Return Loss: 40dB
Maximum DC on Input: 4VDC
Common Mode Range: 8Vpp

S/VHS:

Level: Y Channel: 1.0Vpp \pm 6dB
Level: C Channel: 0.6Vpp, Nominal
Connector: 4 Pin Mini-DIN
Impedance: 75 Ω Terminated

Y, R-Y, B-Y:

Level: Y Channel: 1.0Vpp \pm 6dB
Level: R-Y Channel: BETA or MII
Level: B-Y Channel: BETA or MII
Connectors: BNC
Impedance: 75 Ω , Terminated

OUTPUTS:

NTSC Video:

Level: 1Vpp \pm 6dB
Insertion Gain: Unity
Impedance: 75 ohms
Number of outputs: Two
Connector: BNC
Bandwidth: 26MHz
Tilt: < 1% ref. 30Hz square wave
Hum: >70dB, 1.0Vpp
Overshoot & Ringing: <1%
Propagation Delay: 30nS \pm 5%
Timing: <5nS
S/N Ratio: > 50dB
Differential Phase: <0.1°
Differential Gain: <0.1%

OUTPUTS:

Y, R-Y, B-Y:

Y Channel: 1.0Vpp \pm 6dB
R-Y Channel: BETA or MII
B-Y Channel: BETA or MII
Bandwidth: 26MHz
Connectors: BNC

S-VHS VIDEO:

Level:

Y: 1Vpp \pm 6dB
C: 0.6Vpp, Nominal
Impedance: 75 ohms
Bandwidth: 26MHz
Connector: 4 Pin Mini DIN

FRONT PANEL CONTROLS:

AC Power: On/Off
By-Pass: Push/Push, Maintained
Test: Push/Push, Momentary
LED'S: Video Presence
..... RS-232 Data In
..... Field 1 and Field 2

REAR PANEL:

Remote By-Pass: Two wire terminal block
Modem Connection: 9 Pin D wired as DTE
Computer Connection: 9 Pin D wired as DCE
Baud Rate: Standard 1200, 8,N,1

ENVIRONMENTAL:

Temperature: 0 to 50° C Amb.
Humidity: 10% to 90% non-cond.
AC In:: 115/240VAC
Power: 140mA

MECHANICAL:

Width: 19 Inches
Height: 1 3/4 Inches
Depth: 8 Inches
Weight: 4.75 Pounds

