

VG922B

TELEVISION INSTRUMENTS

CLOSED CAPTION ENCODER



General

Since July 1993, the FCC has been requiring that every new television (over 13 inches) sold in the United States be equipped with a closed caption decoder. In addition, new closed caption decoder ICs have been developed which will provide enhanced captioning performance such as color characters, italics, ... etc. The VG922B closed caption encoder was designed for the test and development of these new closed caption decoders.

Features

- Inserts caption data on Line 21 (Field 1) or Line 284 (Field 2) of a composite NTSC input signal.
- Provides two memory areas: Fixed caption data (ROM / 32 kbit), and User Caption data (RAM / 32 kBit)
- The ROM stores data for: 2 data channels, 2 operating modes (text mode, caption mode), 3 display styles (roll-up, pop-on, paint-on), and 4 character attributes (color, italics, underline, flash)
- The user memory area is edited by an RS-232C interface, to insert custom test caption data.
- The output level of the caption signal is variable (range: 0 to 0.7 Vp-p).
- The output timing of the caption signal is variable in relation to sync phase. (range: $\pm 2.5 \mu s$)

Specifications

- Television systems
 - NTSC- M
- Input signals
 - Number of inputs 1
 - Input level VBS, $1Vp-p \pm 6 dB$
 - Connector type BNC, 75Ω
- Output signals
 - Video signals
 - Number of outputs
 - Line: 1
 - Monitor: 2
 - Connector type BNC, 75Ω
 - Output level $1 Vp-p \pm 0.5 dB$, unity gain
 - Subtitle signals
 - Data level $0.357 Vp-p$
 - Variable 0 to $0.7 Vp-p$
 - Data clock frequency $503.4965 kHz$
 - Data timing (ref. sync phase) $27.382 \mu s$, variable range: $\pm 2 \mu s$
 - Data setup voltage $0 Vp-p$
 - Superimposing lines
 - 21 H (Field 1, ON/OFF selectable)
 - 284 H (Field 2, ON/OFF selectable)
- Output filter 100% roll-off filter
- Remote control RS-232C interface
 - Baud rate 9600 bps
 - Character 8 bits
 - Parity No parity (available by software)
 - Stop bit 2 bits
 - Sync Asynchronous
 - RAM capacity 32 kbits
 - Character code ASCII
 - Connector cable 25 pins D-sub reverse connection

Specifications

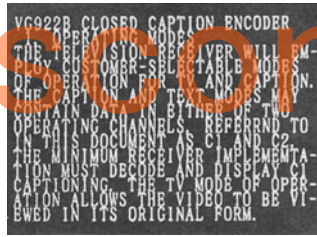
● General specifications

- Power supply AC 100, 120, 220, 240 V ± 10%, 50/60 Hz
- Power consumption Approx. 25 VA
- Operation temperature range 0°C to 40°C
- Relative humidity 25% to 90% RH (non-dewing)
- Dimensions 426 (W) x 99 (H) x 460 (D) mm
- Weight Approx. 7 kg

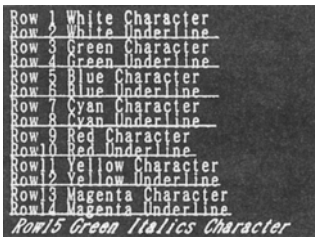
Pattern examples



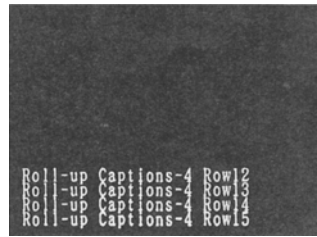
Pop-on



Text



Paint-on



Roll-up

Discontinued