

CC35A3

TELEVISION INSTRUMENTS

SECAM ENCODER



General

The CC35A3 is for encoding analog Y/Cb/Cr component signals into the corresponding SECAM TV format VBS composite signals.

Your PAL format signal generator can be used as a SECAM format signal generation source when its Y/Cb/Cr signal outputs are connected to this unit. In addition, output Y/Cb/Cr signals of a PAL format device such as a PAL format DVD player can be used as a SECAM format moving picture signal source when the outputs are connected to this unit. In this way, this unit can be used for a variety of purposes at manufacturing sites as well as in research and development.

Features

- Two Y/Cb/Cr signal input terminal systems are provided.
- The display mode-indicating signal in the vertical blanking signal periods can be enabled or disabled. Each of the DB signal and the DR signal can be enabled or disabled independently.
- The DB, DR chroma sequence-reversing function is provided.
- The chroma carrier can be enabled or disabled.
- The through mode and the regeneration mode of the SECAM output synchronization signal can be selected.

Specifications

- Input signals
 - Y + SYNC signal
 - Number of inputs 2 (*1)
 - Y level 700 mVp-p, +3 dB
 - Sync level (negative polarity) 300 mVp-p, -10 to +3 dB
 - Input impedance BNC, 75 Ω (automatic termination, loop through)
 - Cb signal
 - Number of inputs 2
 - Cb level 700 mVp-p, +3 dB
 - Input impedance BNC, 75 Ω (automatic termination, loop through)
 - Cr signal
 - Number of inputs 2
 - Cr level 700 mVp-p, +3 dB
 - Input impedance BNC, 75 Ω (automatic termination, loop through)
 - Permissible input signal ranges (*2)
 - Number of lines per frame 625 lines
 - Line frequency 15.625 kHz, ±10 Hz
 - Field frequency 50 Hz, ±0.1 Hz
 - Interlacing ratio 2 : 1
 - Horizontal sync position -1.3, +1.5 μs
 - Horizontal sync width 4.7 μs, -2.0 to +1.5 μs
 - Sync signal level 300 mVp-p, -10 to +3 dB

NOTES

- *1) Be sure to input a Y signal provided with SYNC. If no SYNC is provided, this unit does not work.
- *2) Signals with large line frequency or field frequency deviations, which are provided, for example, by a simple VTR, cannot be input.

Specifications

●Output Signals

• Video signal

Number of outputs

2

Video level 700 mVp-p, ±3%

DR Level 214.5 mVp-p, ±5%

DB Level 166.7 mVp-p, ±5%

SYNC Level (negative polarity)

300 mVp-p, ±5%

Output Impedance

BNC connector, 75 Ω

• Y+S signal

Number of outputs

1

Video level 700 mVp-p, ±3%

Sync level (negative polarity)

300 mVp-p, ±5%

Output Impedance

BNC connector, 75 Ω

• C signal

Number of outputs

1

DR Level 214.5 mVp-p, ±5%

DB Level 166.7 mVp-p, ±5%

Output Impedance

BNC connector, 75 Ω

• Color sub-carrier frequency

FOR=4.40625 MHz, ±2 kHz

FOB=4.25000 MHz, ±2kHz

• Wave form characteristics

Luminance signal frequency characteristics

7 MHz, +/-0.5 dB (7 MHz and over:
descending characteristic)

Sag ≤ 1%

Overshoot ≤ 1%

• Input-output delay Approx. 850 ns

●General Specifications

Power supply AC 90 to 250 V, 50Hz/60Hz

Power consumption

Approx.40 VA

Operating temperature

0°C to 40°C

Relative humidity 25% to 90% (non-dewing)

Dimensions 426(W) x 44(H) x 250(D) mm

Weight Approx. 5 kg

Accessories Power code × 1

3P-2P adapter × 1

User's manual × 1



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