



- CYCLE (Continuous variation)  
VR for setting of cycle number of clock run-in (+/-).  
7 cycles (Before/After clock run-in, continuous variation)
- POSITION SW for inserting position setting  
21H (14H ~ 29H step variation)  
Possible to superimpose even field identification data or CAPTION signal  
(Corresponding to F1/F2 mode )

## Performance

### • Trigger Output

Impedance 75 Ω Unbalanced  
Level 0.7 V<sub>p-p</sub>  
Connector BNC×1

### • Remote Control

System IEEE-488 GP-IB  
Connector Conforming to IEEE-488×1

### • System Frequency

Phase locked with input signal  
Horizontal Frequency (F<sub>h</sub>) 15.734 kHz  
Vertical Frequency (F<sub>v</sub>) 59.94 Hz

### • Encoder Part Characteristics

Data Rate 503 kb/s (32 \* F<sub>h</sub>)  
Wave Form Response 2T characteristics  
Horizontal Sync. Phase Error Less than ±100ns  
※Refer to caption signal specifications of annex.

### • Frequency Response

1kHz ~ 4.0 MHz Within ±0.1dB  
4.0 ~ 8.0 MHz Within ±0.2dB

### • S/N within Band (50Hz ~ 5.0MHz)

Random Noise Less than -50dB  
Hum Noise Less than -60dB

### • Wave Form Distortion

Sag Less than 3%  
Overshoot Less than 3%

### • Caption Broadcasting Test Data

(Standard contents)  
10 patterns  
ROM1 : CAPTION TITLE (CH1/CH2)  
ROM2 : TEXT TITLE (CH1/CH2)  
ROM3 : CAPTION PAINT ON (CH1)  
ROM4 : CAPTION PAINT ON (CH2)  
ROM5 : CAPTION ROLL UP (CH1)  
ROM6 : CAPTION ROLL UP (CH2)  
ROM7 : CAPTION POP ON (CH1)  
ROM8 : CAPTION POP ON (CH2)  
ROM9 : TEXT (CH1)  
ROMA : TEXT (CH2)

※Caption broadcasting test data that are considered to check all caption broadcasting control codes (MCC, MRC, PAC) are provided.

### • GP-IB

Remote control of this unit.  
Registration and deletion of data are voluntarily made.

## General

This unit is test encoder to test closed caption function which is obligated to equip on TV sets being sold in the U.S.A.

This has also encode functions of XDS<sup>※1</sup> and V-Chip<sup>※2</sup>.

On 21 scanning lines of input video signal, clock run-in phase locked, control bits and caption broadcasting data caption coded are inserted and output is made as caption video signal. Also, superimposed caption signal can be varied by front potentiometers and switches for setting of each parameter.

Captioned broadcasting data are selected by front panel key for several text data kept in internal. Also, by remote control of IEEE-488 GP-IB, voluntary data made by host computer can be superimposed.

※1. Consult for contents separately.

※2. Standard test data are provided. (Separately)

## Composition

Main Unit ..... 1

Dimensions 425(W)×49(H)×430(D) mm (Excluding projections)  
Weight Approx. 6 kg

### Accessories

Power Cable (Including 3pin→2pin converter) ..... 1  
Rack Mount Adapter ..... 1 set  
Instruction Manual and Test Result Sheet ..... 1

### Power Source

Input Voltage Allowable Range : AC100V, AC120V, AC220V, AC240V  
by switch (50Hz/60Hz)

Power Consumption : Approx. 30VA

### Operating Environment

Temperature : + 5 °C ~ +40 °C  
Humidity : 45% ~ 85%RH (No dew generation)

## Rating

### • Video Input

Impedance 75 Ω Unbalanced  
Level VS 1.0V<sub>p-p</sub>±3dB  
Connector BNC×1

### • Video Output

Impedance 75 Ω Unbalanced  
Connector BNC×2  
Front Panel Potentiometer and Switch  
• VIDEO LEVEL VR for video level setting  
VS 1.0V<sub>p-p</sub> (±3dB continuous variation)  
(Pedestal DC 0V)  
• VITS LEVEL VR for VITS level setting  
50 IRE (continuous variation)  
• VITS PHASE VR for VITS phase setting (continuous variation)  
• DATA LEVEL VR for VITS data phase (ODD/EVEN) setting

100 —  
Caption Signal and Format

