

ELECTRO CRAFT

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VIDEO EQUIPMENT

SIX LEVEL VIDEO COLOUR SYNTHESISER

TYPE 63VCS.

APPLICATION

The Electrocraft Type 63VCS colouriser is designed for the professional colour television studio to provide RGB or PAL encoded outputs from monochrome or colour picture source, VTR source or 6 level artwork using a monochrome camera.

Each selected level can be controlled in hue, brightness and saturation, independently of all other levels. The six selected levels are independently adjustable following switched gamma laws of 2.5, Unit & 0.4 with overall control of gain.

Features include:-

- * 6 or 3 level switching
- * Gamma control
- * Adjustable gain
- * Tint control
- * Foreground/background selection of each colour on each level
- * Selection of slow or fast edges to produce black outline effects
- * Adjustable Keying output.
- * Unique noise reduction circuits to reduce effects on edges of noisy input signals.

The electronic circuits are all contained in a nesting frame with remote control of all functions by d.c. circuits.

TECHNICAL DATA

Inputs:- Nesting Frame

- a) Video Input 1v p-p composite video or 0.7v p-p non-composite Bridged BNC (75 ohms)
- b) Waveforms:-
 - Mixed Syncs } Bridging Input 2v p-p negative
 - Mixed Blanking } going (75 ohms) 8 way cinch.
- c) 4.433 MHz sub-carrier source 1v p-p (75 ohms) BNC.
- d) Mains supply ac 240v \pm 10% 50 to 60 Hz Bulgin 3 pin connector.

Outputs:- a) 1 each RGB video outputs 0.7v p-p non-composite. BNC (75 ohms) consisting of up to 80% of peak level from selected & controlled input plus up to 20% controllable tint.

- b) Y video output 1v p-p composite.
BNC (75 ohms).
- c) PAL encoded 1v p-p composite signal. BNC 75 ohms.
- d) 6 off each + and - T²L logic level outputs with blanking at '1' level on each
1 off each + - T²L logic level outputs of KEY circuit with blanking at '1' level on each
19 way McMurdo Series 700.

Rear Panel:-

Mains Input & fuse
BNC - RGB, Y & PAL outputs
Sub-carrier Input, video Input.
19 way - T²L logic level outputs
35 & 47 way McMurdo Series 700 -
cable connections to Remote control Unit.

Dimensions:-

Rack mounting 19" x 5½" 14" deep.

Remote Control Panel

- Front Panel:-**
- 1) 3/6 level switching
 - 2) KEY clipping level
 - 3) 6 off colourising clipping levels.
 - 4) Gamma 25/1/0.4
 - 5) Gain
 - 6) 6 off Fast/Slow edge switches.
 - 7) 1 off each RGB tint controls.
 - 8) 6 off each RGB colouriser controls.
 - 9) 6 off each RGB foreground/background switches.

- Back Panel:-**
- 1) Mains Input, 240v ac ± 5%
3 way Bulgin connector.
 - 2) Fuse
 - 3) 35 & 47 McMurdo Series 700 connectors; cable connections for remote control.

Dimensions:-

Front Panel 19" x 7½"
Depth 8"

*Come and see this "Dream Machine" at the
International Broadcasting Convention
September 21 through the 24th 1976
 Grosvenor House, Park Lane, London*