

FEATURES

- *Insertion of alphanumeric characters into an NTSC or RS-170 video. (PAL/CCIR available)*
- *Insertion of boresight reticle.*
- *Insertion of machine readable digital information using left edge encoding method. (OSG-452-86)*
- *RS-232 serial data port.*
- *Decodes and inserts IRIG time.*



DESCRIPTION

The Model 6041-1 Video Data Encoder provides for the insertion of a variety of man and machine readable annotation and graphics into an existing RS-170 or NTSC video signal.

The unit is housed in a ruggedized 8 1/2 inch wide, 2 1/2 inch high, 10 inch deep aluminum enclosure and is powered by 12 or 28 VDC. Power consumption is approx. 7 watts.

Model 6041-1A, As above but includes two 21 bit parallel ports.

Model 6041-1P, As above but operates with PAL/CCIR video signals.

Decoding of the edge encoded data can be accomplished using one of the Model 6x42 series Video Data Decoders. They are designed to read video data which has been encoded into the horizontal interval of an RS-170 or NTSC video signal in accordance with standard left edge format (OSG-452-86), and also quantize the relative position of points of interest within a viewed scene. The 6x42 decoders decode and unpack the encoded data and generate an ASCII message which is output to an RS-232 port. A video insertion generator mixes a reticle into the video signal under operator control. The reticle coordinates are then read and used to digitize the viewed location.

Model 6041-1 Video Data Encoder

SPECIFICATIONS

Video Input	Standard 525/60 composite video 2:1 interlace, black negative per EIA RS-170 or NTSC. 75-ohm impedance. 1 volt peak-to-peak. For PAL use Model 6041-1P.
Video Out	Same as video input with characters and graphics added and DC restored, 75-ohm impedance (output as specified when terminated by 75-ohm load).
Video Amplifier	Bandwidth: >20MHz \pm 1db Gain: Unity
IRIG B Input	IRIG B Standard Time Code (IRIG Document 200-98)
RS232	Standard RS232C Serial Port. Baud rate selectable 300 to 19.2K baud.
Encoded Data	Video left edge encoding method, IAW Optical Systems Group Document 452-86, Section 7.
Character Set	Standard ASCII 96 character set plus 31 additional special characters.
Package	8.5 inch wide, 2.5 inches high, 10 inches deep aluminum enclosure.
Construction	Designed and manufactured in accordance with MIL-STD-454 requirement 9. QA IAW MIL-I-45208.
Environment	
Temperature	0 to +60°C
Humidity	95% (non-condensing)
Storage temperature	-55 to +80°C
Power	9-18VDC, 7 watts