

FEATURES

- *Insertion of alphanumeric characters derived from decoded data*
- *Insertion of center reticle.*
- *Insertion of movable reticle.*
- *Edge data decoder.*
- *RS-232 port.*
- *19 inch Rack mount version, **Model 6042AR**, is also available.*



DESCRIPTION

The ITS Model 6042A Video Data Decoder is a two function device 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 6042A decodes and unpacks the encoded data and generates an ASCII message which is output to an RS-232 port. A video insertion generator mixes alphanumeric characters and reticles into the video signal under operator control. A boresight reticle is available to provide a fixed display reference. A movable reticle positionable via the RS-232 port is available to allow selected points of interest on the viewed scene to be digitized for operator reference. A character generator provides for annotation of display characters as input via the RS-232 port.

The 6042A is housed in a aluminum enclosure 2-1/2 inches high x 10 inches deep x 8-1/2 inches wide.

It is powered by 115VAC 50/60Hz or optionally, 28VDC

Model 6042A Video Data Decoder

SPECIFICATIONS

| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Video In | Standard 525/60 composite video 2:1 interlace, black negative per EIA RS-170 or NTSC. 75-ohm impedance. 1 volt peak-to-peak. |
| Video Out | RS-170 derived from video input with graphics added and DC restored, 75-ohm impedance (output as specified when terminated by 75-ohm load). |
| Video Amplifier | Bandwidth: >20MHz \pm 1 db Gain: Unity |
| Reticle/Coordinate Resolution | Horizontal positional resolution 640 pixels. |
| Data Decoder | Decodes left edge encoded data formatted IAW Optical Systems Group Document 452-86, Section 7. Compatible with ITS Model 6041 Video Data Encoder. |
| RS-232C Port | EIA RS-232C serial asynchronous 300-38.4K baud internally selectable, eight data bit, no parity, one stop bit, full duplex. Default is 19.2K baud |
| Character Set | Standard ASCII 96 character set plus 31 additional special characters. |
| Package | 8.5 inches wide, 2.5 inches high, 10 inches deep aluminum enclosure. |
| Construction and Workmanship | Designed and manufactured in accordance with best commercial practice. Inspection IAW MIL-I-45208. |
| Environment | |
| Temperature | 0 to +50°C |
| Humidity | 95% (non-condensing) |
| Storage Temperature | -55 to +80°C |
| Weight | 4 lbs |
| Power | 115VAC \pm 10%, 50/60Hz, approximately 12W. |