

## FEATURES

- Decodes and inserts IRIG time message into an existing video signal
- Inserts Six, 6 character alarm messages, Controllable via six discrete TTL or contact closure inputs.
- DC powered, 9 to 32 volts
- Ruggedized packaging, designed for vehicle or aircraft mounting.



## DESCRIPTION

The ITS Model 6025 IRIG Decoder/Inserter is an IRIG time code decoder and video insertion generator that inserts the decoded IRIG time into a standard RS-170 video signal. The 6025 also provides for the insertion of event marks. Up to six TTL levels or contact closures can be monitored and, when triggered, a unique message will be inserted for each input. The IRIG time message may be positioned either at the top or the bottom of the display as selected by a front panel switch. The IRIG clock is controlled by the input of the serial IRIG signal. Once the time is established a loss of the IRIG signal will cause the 6025 to automatically switch to an internal real time clock which will increment the time display until the IRIG signal is re-acquired.

The 6025 has two modes of insertion, white (constant contrast) and black, selectable by the operator. The overlay intensity is controlled by a front panel control.

The unit is housed in a ruggedized 2 1/2 inch high, 8 1/2 inch wide, 8 1/2 inch deep, sheet metal enclosure and is powered by 9 to 32VDC.

Another version of the 6025, the 6025A, allows operation on both RS-170 video and RS-343 (875/60) video. The scan rate, on this model, is selectable via a front panel switch.

# Model 6025 IRIG Decoder/Insertter

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## SPECIFICATIONS

<b>Video In</b>	Composite, 525/60 interlaced, 2:1 black negative, one volt peak-to-peak, in accordance with EIA RS-170 or NTSC. NOTE: 875/60 video IAW RS-343 also available (6025A).
<b>Input Impedance</b>	75 ohms
<b>Video Amplifier Bandwidth</b>	>20 MHz $\pm$ 1dB
<b>Video Out 1,2</b>	Same as video in except with annotation added and DC restored; Output level is 1 volt peak-to-peak (output as specified when terminated with a 75 ohm load)
<b>IRIG B Input</b>	IRIG B standard serial time code (IRIG Standard 104-70). Input level 100mv peak-to-peak to 5 volts peak-to-peak with modulation ratio from 2:1 to 6:1, accuracy of +1 - 0.1ms.
<b>Data Input (Message enable)</b>	TTL negative true, 6 discrete lines.
<b>Insertion Mode</b>	Selectable: white constant contrast or black.
<b>Message Generator</b>	Six, six character messages. Displayed upon application of low input on discrete data input. Special messages optional.
<b>Power Requirements</b>	9 to 32VDC, approximately 4.5 watts.
<b>Temperature</b>	
<b>Operating</b>	0° to 55°C (32° to 131°F)
<b>Nonoperating</b>	-20° to 70°C (-4° to 158°F)
<b>Humidity</b>	85% non-condensing
<b>Package</b>	
<b>Size:</b>	2.5 inches high x 8.5 inches wide x 8.5 inches deep.
<b>Weight:</b>	2.5 lbs.