

## MODEL 6095B-3 IRIG B DECODER/INSERTER

### FEATURES

- Decodes and inserts IRIG time message in up to three asynchronous RS-170, NTSC or optionally CCIR/PAL video signals, (6095B-3P).
- Time message is independently positionable in each video channel.
- Channel ID insertion capability.
- DC powered, 9 to 36 volts.
- Ruggedized packaging, designed for vehicle or aircraft mounting. Fully complies with "Safety of Flight" (SOF) requirements.
- Also available in 1 and 5 channel versions, 6095B-1 and 6095B-5.



### DESCRIPTION

The ITS Model 6095B-3 IRIG Decoder/Video Inserter is an IRIG B time code decoder and video insertion generator that inserts the decoded IRIG B time in up to three (3) asynchronous RS-170 or NTSC video signals. The time message can be independently positioned in each channel to either the top or bottom of the display as selected by front panel switches. A unique channel identifier can also be inserted in the display.

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 6095B-3 to automatically switch to an internal real time clock, which will increment the time display until the IRIG signal is re-acquired.

The generated time message is added to the existing video using the relative or constant contrast method. The overlay intensity is controlled by a front panel control.

The unit is housed in a ruggedized 3.75-inch high, 4.5 inch wide, 6.0 inch deep, aluminum enclosure and is powered by 9 to 36VDC.

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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. Optionally CCIR/PAL (6095-3P). Input connector is BNC with integral EMI filter.
<b>Input Impedance</b>	75 ohms
<b>Video Amplifier Bandwidth</b>	>20 MHz $\pm$ 1dB
<b>Video Out 1</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). Output connector is BNC with integral EMI filter.
<b>IRIG B Input</b>	IRIG B standard serial time code (IRIG Standard 200-98). Input level 100mv peak-to-peak to 5 volts peak-to-peak with modulation ratio from 2:1 to 6:1, accuracy of $\pm$ 1 -0.1ms. The input connector is BNC with integral EMI filter.
<b>Insertion Mode</b>	White, constant contrast.
<b>Power Requirements</b>	9 to 36VDC, approximately 4.5 watts. Power connector is PT02A-8-3P.
<b>Temperature</b>	
Operating	0° to 60°C (32° to 140°F)
Nonoperating	-20° to 70°C (-4° to 158°F)
<b>Humidity</b>	95% non-condensing
<b>Package</b>	
Size:	3.75 inches high x 4.5 inches wide x 6.0 inches deep.
Construction:	Designed to meet aircraft "Safety of Flight" requirements.