

MODEL 6095 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, (6095A).
- Time message is independently positionable in each video channel.
- Selectable character sizes.
- DC powered, 9 to 36 volts.
- Ruggedized packaging, designed for vehicle or aircraft mounting. Fully complies with "Safety of Flight" (SOF) requirements.



DESCRIPTION

The ITS Model 6095 IRIG Decoder/Inserter is an IRIG time code decoder and three channel video insertion generator that inserts the decoded IRIG time into a standard RS-170 or NTSC video signal. The Model 6095A is identical to the 6095 except it operates on CCIR or PAL video. The IRIG time message may be independently positioned in each channel to any of fifteen locations, nine at the top and six at the bottom as set by three front panel selector switches. The switch also has a sixteenth position which turns the message off. There are two character sizes, which are selected for each channel by three front panel switches. When "Small" is selected, the inserted characters are 14 scan lines high. When "Large" is selected the height is doubled to 28 scan lines.

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 6095 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.

Model 6095 IRIG Decoder/Insertter

SPECIFICATIONS

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| Video In | Composite, 525/60 interlaced, 2:1 black negative, one volt peak-to-peak, in accordance with EIA RS-170 or NTSC. Optionally CCIR/PAL (6095A). Input connector is BNC with integral EMI filter. |
| Input Impedance | 75 ohms |
| Video Amplifier Bandwidth | >20 MHz \pm 1dB |
| Video Out 1 | 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. |
| IRIG B Input | IRIG B standard serial time code (IRIG Document 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 +1 - 0.1ms. The input connector is BNC with integral EMI filter. |
| Insertion Mode | White, constant contrast. |
| Power Requirements | 9 to 36VDC, approximately 4.5 watts. Power connector is PT02A-8-3P. |
| Temperature | |
| Operating | 0° to 60°C (32° to 140°F) |
| Nonoperating | -20° to 70°C (-4° to 158°F) |
| Humidity | 95% non-condensing |
| Package | |
| Size: | 3.75 inches high x 4.5 inches wide x 6.0 inches deep. |
| Construction: | Designed to meet aircraft "Safety of Flight" requirements. |