

MODEL 6055B-10 MULTI-CHANNEL VIDEO INSERTER

FEATURES

- *Decodes and inserts IRIG B time message into ten asynchronous video signals.*
- *Generates and inserts up to 22 lines of 30 alphanumeric characters each into each video channel.*
- *Includes Countdown Clock, synchronized with the applied IRIG B time signal.*
- *Two fonts, selectable by front panel switch, keyboard or via RS232 port.*
- *Provides 20 discrete event/alarm inputs (two per channel).*
- *Independent insertion of machine-readable digital information using left edge encoding method on each video channel.*
- *Independent insertion of boresight reticle on each video channel.*
- *RS-232C port, provides means for remote control and annotation of display.*
- *Detachable keyboard, provides means for the operator to annotate and format video display locally.*
- *Accepts RS170, NTSC or S-Video input. (PAL version available, **Model 6055B-10P**)*



DESCRIPTION

The ITS Model 6055B-10 Multi-channel IRIG Inserter provides for the insertion of alphanumeric messages, IRIG time and countdown clock, into ten, asynchronous, RS-170, NTSC or S-Video signals. Annotation, positioning of the IRIG time message and positioning of the alarm messages can be done via the keyboard and/or the RS-232 port. The IRIG time may also be transmitted over the RS-232 port upon command from the keyboard or the RS-232 port. Twenty discrete control inputs, two per channel, are used to enable the alarm messages with either a TTL level or a contact closure. A loss of IRIG B input causes the 6055B-10 to automatically switch to an internal real time clock. If it is desired to operate the unit without IRIG B input this clock may be set by either the keyboard or via the RS-232 port. The Countdown Clock is set via the keyboard or RS232 port and controlled by two discrete TTL inputs.

The 6055B-10 has two modes of insertion, constant contrast and white with black border, independently selectable for each channel via front panel switches. The overlay intensity is controlled by front panel controls.

The Data Encode function provides for the encoding of time and selected text independently into each video channel, using the "Left Edge" method. The data may be machine read using any decoder meeting the RCC document 452-86 section 7 specification, such as the ITS models 6042 and 6142A Decoders

The unit is housed in a rack mountable aluminum enclosure, 19 inches wide, 3.5 inches high, 15 inches deep. It is powered by 100 to 240VAC, 50 to 400 Hz.

Model 6055B-10 Multi-Channel IRIG Inserter

SPECIFICATIONS

Video Channels	Ten, asynchronous, each with two outputs
Video In 1	Composite, 525/60 interlaced, 2:1 black negative, one volt peak-to-peak, in accordance with EIA RS-170 or NTSC. (each channel)
Video In 2	Standard S-Video Y/C. (each channel)
Input Impedance	75 ohms
Video Amplifier Bandwidth	>20 MHz \pm 1dB
Video Out 1,2	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)
IRIG B Input	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.
Encoded Data	Video left-edge encoding method. Format IAW RCC document 452-86 section 7.
Data Input (Message enable)	TTL negative true, 20 discrete lines, two designated for each channel.
Countdown Clock control	TTL negative true, two inputs: RUN/HOLD and PRESET.
RS-232C	EIA RS-232C serial, 19200 baud, 8 bit, no parity, 1 stop bit.
Keyboard	PC AT style 101 key, detachable.
Character Generator	96-character ASCII set, 7X9 pixel format. Insertion mode is selectable: constant contrast or white with black border.
Message Generator	Two, six character messages for each channel, total of 20. Displayed upon application of low input on discrete data input. Special messages optional.
Power Requirements	100 to 240VAC 50 to 400Hz, 20 Watts.
Temperature	
Operating	0° to 50°C (32° to 122°F)
Non-operating	-20° to 70°C (-4° to 158°F)
Humidity	85% non-condensing
Package	
Size:	19 inch rack mountable, 3.5 inches high, 15 inches deep.
Weight:	6 lbs.

