

## FEATURES

- Decodes and inserts IRIG time message.
- Generates and inserts up to 30 lines of 32 alphanumeric characters each
- Inserts up to seven, user programmable, eight-character alarm/event messages. Individually controllable via seven discrete inputs.
- RS-232C port
- Non-volatile memory
- Detachable Keyboard



## DESCRIPTION

The ITS Model 6980 and 6980A Video Insertion Generators provide for the insertion of alphanumeric messages and IRIG time into a standard RS-170 or NTSC video signal (6980) or RS-343, 875 line (6980A). Annotation, positioning of the IRIG time message and selection 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. Seven discrete control inputs are used to enable the alarm messages with either a TTL level or a contact closure.

The 6980 has two modes of insertion, constant contrast and white with black border, selectable via a front panel switch. In addition, the mode can be selected via the keyboard or the RS-232 port, on a character-by-character basis. The overlay intensity is controlled by a front panel control. Full control of the 6980 may be performed via the RS-232 port, which allows the unit to be used without the manual keyboard.

The 6980 is housed in a 1U, 19-inch wide, 1¾ inch high, 8-inch deep, rack mountable aluminum enclosure and is powered by 100 to 240 VAC, 50/60 Hz line.



# Model 6980 Video Insertion Generator

## 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, optional.
<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 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.
<b>Data Input (Message enable)</b>	Contact closure or TTL negative true, 7 discrete lines.
<b>RS-232C</b>	EIA RS-232C serial, 9600 baud, 8 bit, no parity, 1 stop bit.
<b>Keyboard</b>	PC style 101 key, detachable.
<b>Character Generator</b>	96-character ASCII set plus 32 special characters. Insertion mode is selectable: constant contrast or reverse video, on character by character basis.
<b>Message Generator</b>	Seven, eight-character user programmable messages. Displayed upon application of low input on discrete data input. Messages may be positioned to any location within the viewed scene.
<b>Power Requirements</b>	120VAC $\pm$ 10%, 60Hz, 7 Watts. (5 Watts with keyboard detached).
<b>Temperature</b>	
Operating	0° to 50°C (32° to 122°F)
Nonoperating	-20° to 70°C (-4° to 158°F)
<b>Humidity</b>	85% non-condensing
<b>Package</b>	
Size:	1U 19-inch wide, 1 ¾ inch high, 8-inch deep.
Weight:	4.5 lbs.



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