

MODEL 6980 VIDEO INSERTION GENERATOR

FEATURES

- Decodes and inserts IRIG time message.
- Generates and inserts up to 30 lines of 32 alphanumeric characters each
- Inserts up to eight, user programmable, eight-character alarm/event messages. Individually controllable via eight discrete inputs.
- Generates and Inserts Boresight Reticle
- 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), RS-343, 875 line (6980A) or PAL (6980P). Annotation, positioning of the IRIG time message and selection and positioning of the user programmable 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. Eight 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.

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SPECIFICATIONS

Video In	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, or 625/50 video IAW PAL are optional, 6980A and 6980P respectively.
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 500mv peak-to-peak to 5 volts peak-to-peak with modulation ratio from 2:1 to 6:1,
Data Input (Message enable)	Contact closure or TTL negative true, 8 discrete lines corresponding to the eight programmable messages/alarms.
RS-232C	EIA RS-232C serial, 2400 to 19200 baud, 8 bit, no parity, 1 stop bit.
Keyboard	PC style 101 key, detachable.
Character Generator	96-character ASCII set plus 32 special characters. Insertion mode is selectable: constant contrast, black border or reverse video, on character by character basis.
Message Generator	Eight, 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.
Power Requirements	120VAC \pm 10%, 60Hz, 7 Watts. (5 Watts with keyboard detached).
Temperature	
Operating	0° to 50°C (32° to 122°F)
Nonoperating	-20° to 70°C (-4° to 158°F)
Humidity	85% non-condensing
Package	
Size:	1U 19-inch wide, 1 ¾ inch high, 8-inch deep.
Weight:	4.5 lbs.

