

## FEATURES

- Inserts an Azimuth & Elevation message into an applied RS170 or NTSC video signal.
- Inserted message is operator positionable to any location in the video display.
- Three operator selectable fonts
- User calibration function.
- Menu prompted setup.
- Can be directly interfaced to the ITS Model 6125D series Receiver/Drivers



## DESCRIPTION

The ITS Model 6160, Digital Display Generator (DDG) is a video insertion generator which inserts an Azimuth & Elevation message into an applied RS170 or NTSC video signal. The Az & El message is generated from analog inputs controlled by two, user supplied potentiometers, which are usually part of a camera pan/tilt head.

The user potentiometers are powered by the DDG, which then receives the return voltage. This value, which is proportional to the position of the potentiometer, is normalized and inserted into the video. Calibration is performed by setting the potentiometers to known positions, and entering that value via a front panel keypad. The keypad is also used to position the inserted message and select the font size. All operator programming is menu prompted and is stored in non-volatile memory.

The unit is housed in a 19 inch wide rack mountable aluminum enclosure, 3.5 inches high and 8.5 inches deep. It is powered by 100 to 250 VAC line.

# Model 6160 Digital Display Generator

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## SPECIFICATIONS

<b>Video Input</b>	Standard 525/60 composite video 2:1 interlace, black negative per EIA RS-170 or NTSC. 75-ohm impedance. 1 volt peak-to-peak.
<b>Video Out</b>	RS-170 derives from video input with characters added and DC restored, 75-ohm impedance (output as specified when terminated by 75-ohm load.)
<b>Video Amplifier</b>	Bandwidth: $>20\text{MHz} \pm 1\text{db}$ Gain: Unity
<b>AZ &amp; EL Input</b>	Power to Potentiometers = 10 VDC (Min. 1k, Max. 10K). Input signals are pot wipers.
<b>Display Format</b>	Azimuth: XXX, Elevation: $\pm XX$ . Formatted with Elevation displayed beneath Azimuth. Resulting message may be positioned anywhere within display.
<b>Character Size</b>	Selectable, Three sizes: 64 columns by 30 rows, 32 columns by 30 rows and 16 columns by 15 rows.
<b>Package</b>	19-inch wide, 3.5-inch high, 8.5-inch deep rack mountable aluminum enclosure.
<b>Environment</b>	Temperature -20 to + 70°C Humidity 95% (non-condensing)
<b>Power</b>	100 to 250 VAC, 50/60 Hz