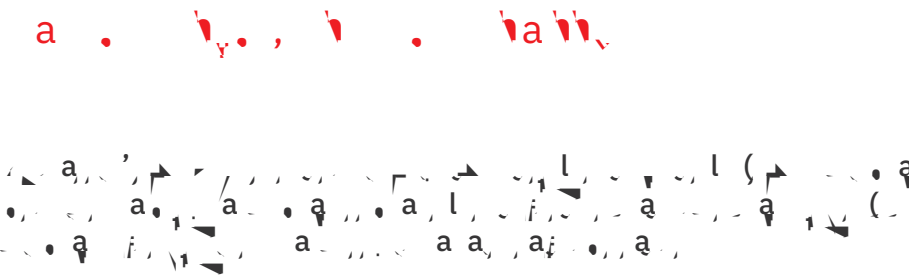


# EFI-650 ELECTRONIC FLIGHT INSTRUMENT



Regional and business jet operators are reducing operating costs and improving the flight experience with the EFI-650 display. This plug-and-play replacement addresses the aging CRT obsolescence, while offering huge gains in reliability, reduces weight, and lowers power consumption over legacy systems.

The EFI-650's mean-time between failures (MTBF) is greater than 25,000 hours which is a 50% improvement over CRTs. This reliability reduces operational disruptions and the risk of AOGs, as well as the need to provision and hold more spares. The LCD display is 50% lighter than standard CRTs, therefore reducing operational costs and offering exceptional clarity and brightness to the pilots.

- > Drop-in replacement for the Honeywell ED-800 CRT display
- > No change to cockpit panel or LRU mounting provisions
- > Eliminates Cathode Ray Tube (CRT) and high-voltage power supply for improved reliability
- > Reduces life-cycle costs
- > Reduces display weight by 50%
- > Provides growth provision to

**EFI-650**

**OPTICAL PERFORMANCE**

Viewing Area	3.4" (H) x 4.53" (W)
Color Resolution	6-bits per color
Resolution	640 x 480 (VGA)
Colors	262,144 possible; Video interface supports palette of 13 colors + black
Viewing Distance	0.1 fL to ~150 fL
Viewing Angle	±45° horizontal; +45°, -23° vertical
Viewing Envelope	>3:1 across viewing envelope

**PHYSICAL DESCRIPTION**

Dimensions (w/inclinometer)	5.1" x 6.1" x 11.0"
Dimensions (w/out inclinometer)	5.1" x 6.1" x 10.5"
Weight	Approx. 5 lb.
Cooling	Passive convective
Heating	Integrated heater
Power Requirements	28VDC per DO-160G, Sec. 16, Cat. B; Operate thru 200 ms power interrupt
Power Consumption	<20 Watts
Power Consumption (w/heater on)	<35 Watts
Light Sensing	Photosensors for automatic dimming in response to ambient light

**FUNCTIONAL DESCRIPTION**

Video Type	Analog (stroke and raster) video
Video Resolution	Analog (stroke and raster)
Video Interface	Analog and discrete
Inclinometer Control	Inclinometer is dimmable under control of aircraft lighting bus

**APPROVED STCs**

STC 1	...
STC 2	...
STC 3	...
STC 4	...

**EFI-650**

**ENVIRONMENTAL PERFORMANCE (DO-160G)**

Shock & Vibration	Sec. 4, Cat. A2
Temperature (Storage)	Sec. 4.5.2, -20° C
Temperature (Operating)	Sec. 4.5.1, -40° C
Temperature (Operating)	Sec. 4.5.3, +70° C
Temperature (Operating)	Sec. 4.5.4, +70° C
Temperature (Operating)	Sec. 4.5.1, 240 min @ 10° C
Temperature (Operating)	Sec. 4.5.1, -55° C