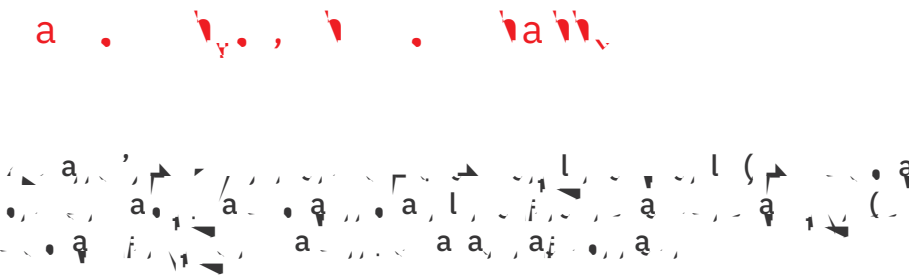


EFI-650 ELECTRONIC FLIGHT INSTRUMENT



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

| | |
|------------------|---|
| Display Area | 3.4" (H) x 4.53" (W) |
| Color Resolution | 6-bits per color |
| Resolution | 640 x 480 (VGA) |
| Color Depth | 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)

| | |
|-----------------------|------------------------------|
| Operating Temperature | Sec. 4, Cat. A2 |
| Storage Temperature | Sec. 4.5.2, -20° C |
| Shock | Sec. 4.5.1, -40° C |
| Vibration | Sec. 4.5.3, +70° C |
| Humidity | Sec. 4.5.4, +70° C |
| Altitude | Sec. 4.5.1, 24000 ft @ 20° C |
| Other | Sec. 4.5.1, -55° C |