

L-3's EFI-650 Electronic Flight Instrument System (EFIS) display upgrade provides a plug-and-play replacement for the Cathode Ray Tube (CRT) displays installed on a large number of business and regional aircraft. The EFI-650 uses the latest-generation Active Matrix Liquid Crystal Display (AMLCD) technology and solid-state LED backlighting to eliminate the maintenance cost and obsolescence concerns associated with aging CRTs. The EFI-650 displays provide higher reliability, reduced



weight and lower life-cycle cost.

KEY FEATURES & BENEFITS

- Form/Fit/Function Replacement requires no aircraft modifications
- Fully interchangeable with legacy displays
- Eliminates Cathode Ray Tube (CRT) and high-voltage power supply for improved reliability
- Reduces life-cycle costs
- Reduces display weight by 50%
- Provides growth path for future enhancements such as Satellite-based Augmentation System (SBAS) approach, windshear annunciation and ADS-B In
- Advanced Thomas ADA 2.0 display processing technology from Thomas Global Systems



LCD Replacement for EFIS Cathode Ray Tube Display

SPECIFICATIONS

OPTICAL PERFORMANCE		
Viewable Area:	3.4" (h) x 4.54" (w)	
Addressability:	6-bits per color	
Resolution:	640 x 480 (VGA)	
Color:	262,144 possible; Video interface supports palette of 10 colors + black	
Luminance:	0.1 fL to ~150 fL	
Viewing Angles:	±45° horizontal; +45°, -23° vertical	
High Amb. Contrast Ratio:	> 3:1 across viewing envelope	
PHYSICAL DESCRIPTION		
Dimensions (H x W x D):	w/inclinometer: 5.1" x 6.1" x 11.0" w/out inclinometer: 5.1" x 6.1" x 10.5"	
Weight:	Approx. 5 lb.	
Cooling:	Passive convective	
Heating:	Integrated heater	
Primary Power:	28 VDC per DO-160G, Sec. 16, Cat. B; Operate thru 200 ms power interrupt	
Power Consumption:	< 50 Watts	
Bezel Configuration:	Photosensors for automatic dimming in response to ambient light	
FUNCTIONAL DESCRIPTION		
Video Interfaces:	Analog (stroke and raster) video	
Video Out:	Analog (stroke and raster)	
Signal Interfaces:	Analog and discrete	
Other (i.e. inclinometer):	Inclinometer is dimmable under control of aircraft lighting bus	



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