

## Ruggedized Command & Control Solutions

# Multi-Function Display

High Resolution 10.4-inch AMLCD

### KEY FEATURES

- Full sunlight readable
- Large viewing angles
- Convection cooled
- High light uniformity
- NVIS standard
- Standard interfaces
- Compact, lightweight
- Qualified



The L-3 10.4-inch Multi-Function Display provides a superior sunlight readable image area with exceptional bezel functionality in a physical format that can easily be applied to helicopters, fixed wing aircraft, ground vehicles, and shipboard systems. The display is capable of presenting full or split screen graphics with full motion video and FLIR video.



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## 10.4" Multi-Function Display

### SPECIFICATIONS

#### Functional

Active Display Area	10.4" diagonal (6.2" vert x 8.3" horz) 4:3 aspect ratio Full color 6 Bit/color
Resolution	XGA (1024 x 768 pixels)
Night Vision Capability	Per Mil-Std 3009 class B
NVIS Black Bkgd.	<5 x 10 <sup>-11</sup>
Luminance	Day mode: 275 fL to 5 fL Night mode: 5 fL to .02 fL
Response Time	25 ms @ 40° C
Refresh Rate	60 Hz
Video interface	DVI
Contrast Ratio	Sunlight ambient: 10:1 typical at design eye 3:1 minimum at ±45° H, 0° to + 25° V in 8,000 fc diffuse illumination and a 2,000 fL glare source Dark ambient: 100:1 minimum at design eye
Viewing Angles	±45° horizontal ±40° vertical
Shades of Gray	64 per color
Data Interface	ARINC 429 (Dual)
MTBF	> 5000 hrs. @ 25° C
Mean Time to Repair	< 15 min. @ organizational level Note: Switch bezel separately replaceable without removal of unit

#### Environmental

Temperature	-54° C to 55° C 71° C for 30 min. Storage: -57° C to 85° C
Altitude	Operating/non-operating: Sea level to 50,000 ft
Sand and Dust	Per RTCA/D0160D, Sec 12 cat D
Humidity	100% per Mil-Std 810, operating/non-operating
Salt Fog	Per Mil-Std 810
Fungus	Per RTCA/D0160D, Sec 12 cat D
Explosive Atmosphere	Per Mil-Std 810 Method 511.3 Procedure I
EMC	Per Mil-Std 461

Operational Shock	15g's 11 ms per RTCA/D0-160 sec 7.0
Shock Procedure VI	Mil-Std 810 Method 516.4
Crash Safety	40g's 11 ms per RTCA/D0-160 sec 7.0
Vibration	Background gun fire .02g's @ 2.5 Hz
EMI	MIL-STD-461 E

#### Physical

Weight	8.0 lbs
Dimensions	10.20" W x 8.20" H x 3.6" D
Color	Black face, white lettering
Cooling	Convective/Conduction

#### Electrical

Input Power	28 VDC per Mil-Std 704
Consumption	Normal operation: 55 W Low Temp: 250 W

#### Options

- RGB video interface
- Collins compatible video interface
- RS-232 data interface
- Discretes data interface

### Ruggedized Command & Control Solutions

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10.4" MFD 01/23/08 ver. 1.0



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Cleared by DoD/DFOISR for public release under DFOISR Case No. 04-S-1527 on 2 June 2004.