



MFD

Multi-Function Display

ISI's **Multi-Function Display (MFD)** provides full-color graphics rendering, operator controls, and high resolution display for rugged military applications (ground or airborne). Customizable in size, the Active-Matrix Liquid Crystal Display (AMLCD) features anti-reflective coatings, electro-magnetic interference shielding treatments and a selectable day and night (NVIS-compliant) LED backlight. Multiple configurable soft keys can be used to display information to the user in numerous ways to work with current or future platforms.



Key Features and Benefits

- Modular and open architecture design (“Basic” and “Smart” Display Configurations)
 - » Reconfigurable SoC controller and graphics/video processing
 - » Green Hills® real-time operating system
 - » ARINC 653 type partitioned environment
 - » Open GL Embedded System-Safety Critical (ES-SC) graphics
- Direct interface with legacy signals
 - » Embedded data concentrator
 - » Legacy interface conversion in display
- Eliminates federated boxes through embedded processing
- Unmatched situational and information awareness
- Weight, power savings and reliability/ LCC improvement

Operational and Performance Capacities

Optical Performance

Viewable Area	8" x 6" (Landscape or Portrait)	Viewing Angles	±70° (H/V)
Resolution	1024x768	High Ambient Contrast Ratio	Up to 18:1 (Eye Reference Point)
Color	10-bits per color group (30-bit color)	Low Ambient Contrast Ratio	Up to 1000:1 (Eye Reference Point)
Luminance	>300fL (day mode)	NVIS	MIL-STD-3009 Compliant

Physical Description

Dimensions	9.75" x 7.68" x 6.4" *
Weight	10lbs *
Cooling	Conduction Cooled
Primary Power	115VAC or 28VDC Aircraft Power *
Bezel Configuration	Multifunction Buttons, Day/Night/Off Toggle, Source Selection, and Brightness * Dependent on configuration

Function Description

Video Interfaces	Analog (RS-170/343), Digital (SMPTE292)**
Signal Interfaces	1553, RS-422 ** ** Subject to platform interface requirements

Environmental Performance

Temperature	-55°C - +85°C (Operating) -55°C - +90°C (Storage)
Shock	MIL-STD-810
Vibration	MIL-STD-810
Altitude	MIL-STD-810 + 70,000 ft
EMI/ EMC	MIL-STD-461