



Illuminating. Always.



MFD1040

10.4" Multi-Function Display

The MFD1040 using a 6" x 8" proprietary Active Matrix Liquid Crystal Display (AMLCD) and life-of-the-aircraft backlight technology deliver a visual performance second to none, with 8-bit color depth, high contrast ratio and superior color stability, very wide viewing angles and superior brightness in day, night and NVIS modes.

Using Korry proprietary control mechanisms, optical quality is guaranteed over the complete operating temperature range and life time.

As an option, the light can be collimated to reduce reflections on the windshield or canopy. The MFD1040 provides a cost effective, high reliability display module, and has a maximum luminance of 240fL and a display resolution of 1024 x 768.

This display is an ideal candidate to integrate into Part 23, Part 25, Part 27 and Part 29 electronic flight instrument systems or mission displays.



Product Specifications

10.4" (8.3" x 6.2") Multi-Function Display

Electro-optical	
Panel type	MVA-TFT
Panel active area	10.4" diagonal (8.3" x 6.2")
Panel resolution	1024 x 768
Color depth	True 8-bit – 16.2M colors
Viewing angle	H: +/-60° ; V: +/-60°
Backlight	Direct view RGB LED backlight
Backlight life	180,000 hours
Luminance	6.0 up to 230fL Day; ≤0.05fL to 12 fL; 0.03 to 25 fL (NVIS mode)
Dimming	Bezel control
Readability	Contrast ratio @ 8,000fc high ambient 10:1 ; dark ambient 500:1
NVG compatibility	MIL-STD-3009 Type I/II, NVIS Class B MIL-STD-3009 Class A Bezel
Interfaces	
Video inputs	Inputs: Dual selectable DVI
Physical	MIL-DTL-38999L
Data	EIA-STD-RS-422
Bezel lighting	0-5 VDC

Controls	
Brightness control	BRT/DIM bezel hard keys
Day/Night	NAY/NITE bezel hard keys
Bezel control	18 soft keys (state reported via RS-422)
General	
Power supply	28VDC, MIL-STD-704A
Power consumption	50W max luminance
Outline dimensions	10.5" x 8.5" x 4.2"
Weight	8.0lbs max
Cooling	Active fan cooling
Response time	20ms @40°C
Startup time	<200ms
Environmental	
Compliance	DO-160E, MIL-STD-461E
High temperature	+71°C operational; +85°C short time; +95°C ground survival
Low temperature	-40°C operational ; -55°C ground survival
Altitude	65,000 ft

Key Features:

- LED backlight for low power and long life
- Best in class true 8-bit AMLCD for superior color rendering
- Very wide viewing angles – ideal for cross cockpit viewing
- Guaranteed brightness and color range over the operating temperature of the display and over its lifetime
- Continuous operations at up to 71°C
- NVIS Class B compatibility



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