



Korry

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KDM1040S

10.4" Display Head Assembly

The KMD1040S 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 KDM1040 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

KDM1040S

Electro-optical		Controls	
Panel type	MVA-TFT with heater	Brightness control	ALS sensors, bezel control, or remote
Panel active area	10.4" diagonal (8.3" x 6.2")	Bezel control	Available with custom bezels
Panel resolution	1024 x 768	General	
Color depth	True 8-bit – 16.2 million colors	Power supply	28VDC, MIL-STD-704A, +3.3VDC, 0-5 VDC dimming
Viewing angle	H: +/-60° ; V: +/-60° Can be tailored to program requirements	Power consumption	35W max luminance heater off ; 133W max luminance heater on
Backlight	LED backlight	Outline dimensions	9.18" x 7.33" x 1.50" (233mm x 186mm x 38mm)
Backlight life	16,000 hours MBTF; 105,000 hours AIC	Weight	3.5lbs (1600g)
Luminance	6.0 up to 240fL day mode ≤0.05 up to 12fL night mode	Cooling	Passive cooling
Dimming	Serial Command	Response time	25ms @35°C
Readability	Contrast ratio @ 8,000 fc high ambient 10:1 dark ambient 500:1	Startup time	Warm up from -40°C < 1 minute functional <5 minute full performance
NVG compatibility	MIL-STD-3009 Type I/II, NVIS Class B ; MIL-L-85762 Type I/II, NVIS Class B (optional)	Environmental	
Heater	Heater for display startup at extremely cold temperatures	Compliance	DO-160E, MIL-STD-461E, MIL-STD-810G (optional)
Interfaces		High temperature	+71°C ground survival
Video/data inputs/outputs	Inputs: 8 bit RGB digital LVDS/RS232	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 AMLDC for superior color rendering
- Very wide viewing angles – ideal for cross cockpit viewing
- Brightness of 240fL making it suitable for installation in open cockpit aircraft
- Guaranteed brightness and color range over the operating temperature of the display and over its lifetime
- NVIS Class B compatibility (optional)
- Landscape or portrait orientation



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