



Korry

Illuminating. Always.



KDM640/650

6.5" Display Head Assembly

The KMD640S proprietary Active Matrix Liquid Crystal Display (AMLCD) and life-of-the-aircraft backlight technology deliver a visual performance second to none, with 6-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 KDM640 provides a cost effective, high reliability display module, and has a maximum luminance of 240fL and a display resolution of 640 x 480.

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

KDM640/650

Electro-optical		Controls	
Panel type	Active matrix LCD (normally white)	Brightness control	ALS sensors, bezel control, or remote
Panel active area	6.521" diagonal (5.216" x 3.912")	Bezel control	Available with custom bezels
Panel resolution	640 x 480	General	
Color depth	True 6-bit – 262,144 colors and 64 grayscales	Power supply	28VDC, MIL-STD-704A, +3.3VDC, 0-5 VDC dimming
Viewing angle	H: +/-60° ; V: +/-45° Can be tailored to program requirements	Power consumption	Backlight: 9W@28VDC; AMLDC: 0.085W@5VDC; Heater: 33.1W@28VDC
Backlight	LED backlight	Outline dimensions	6.01" x 4.76" x 1.48" (153mm x 121mm x 38mm)
Backlight life	20,000 hours	Weight	1.5lbs (680g)
Luminance	0.1 up to 240fL (non-NVIS mode) 0.03 up to 25 fL (NVIS mode)	Cooling	Passive cooling
Dimming	Serial Command	Response time	25ms @35°C
Readability	Contrast ratio high ambient 10:1 dark ambient 200:1	Startup time	<200ms
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 inputs	Inputs: 6 bit RGB digital	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 6-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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