

HDD - 55L

ADVANCED AMLCD HEAD DOWN DISPLAY



The HDD-55L is a 5-inch x 5-inch, high resolution, Active Matrix Liquid Crystal Display (AMLCD) that was designed as a form-fit functional replacement for the 5-inch CRT Head Down Display of the Dassault Mirage 2000 EG/BG.

The HDD-55L unit provides high resolution displays of imagery generated by the aircraft, including stroke symbology, monochrome and color video as well as video with stroke symbology overlaid.

Enhancements include black border of stroke overlay, high brightness and excellent viewability during high ambient daytime lighting conditions.

The HDD-55L is designed and qualified to operate in harsh military aircraft environments.



FEATURES

HDD-55L Advanced AMLCD Head Down Display

Active Display Area	5" x 5"
General Description	Displays Video, Stroke Graphics and Graphics Over Video High Resolution, Sunlight readable Display RGB Stripe, 119.2 p/inch
Optical Properties	
Screen Resolution	600 x 600 Pixels
White Luminance Range (Day Mode)	1 to 350 fL
White Luminance Range (Night Mode)	0.025 to 10fL
Ambient Contrast Ratio (Day)	> 8:1 (10,000 fc diffuse illuminance and 2,000 fL specular reflectance Ambient)
Ambient Contrast Ratio (Night)	> 120:1 (less than 0.01 fc diffuse illuminance Ambient)
Viewing Angle	±30° Horizontal, 0° to +30° Vertical
NVIS Compatibility	AMLCD complies with MIL-L-85762A, Type II, Class B
Physical Properties	
Dimensions	Length (537,4 mm), Width (157,2 mm), Height (191,2 mm)
Weight	11.9 Kg
Operating Power	115VAC, 3-Phase, 400Hz < 170 W (with fan operation)
Cooling	On-board Fan, Conduction cooled electronics
Warm-Up Time	2-5 min (full operation)
Operator Controls	16 Switches for Display & Mode control
Operating Temperature Range	-40°C + 55°C
Environmental Qualifications	MIL-STD-810C, GAM-EG 13B AIR 7306
Electromagnetic Interference/ Electromagnetic Compatibility (EMI/EMC)	MIL-STD-461C
Equipment Qualification	Qualified under the Hellenic Air Force Mirage 2000EG/BG Display Upgrade program



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