

Display Systems

C-130J/C-27J CMDU

6"x8" ACTIVE MATRIX LCD

L-3's Color Multi-Functional Display Unit (CMDU) is a 10.4-inch viewable AMLCD-based smart display with embedded processing and graphics processing. Multiple CMDUs serve as Primary Flight Displays providing situational awareness for the flight crews aboard the C-130J and the C-27J. The CMDU is a sunlight readable display that is night vision compatible.

KEY FEATURES

- High-Resolution XGA (122 CPGI), 6/8-Bit Color Display
- Hemispherical, High-Contrast $\pm 60^\circ$ Viewing Angle
- Luminance Range from 0.03 to 200+ fL with NVIS
- Minimal X, Y, Z Dimensions
- Digital TAXI Bus Video, MIL-STD-1553 Bus Interface
- Meets Full MIL Environments
- Various EFIS, MFD, EICAS, and Video Bezel Options
- Lightweight, Low Power, 28 VDC Operation
- D0-178B, Level A Software



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OPTICAL PERFORMANCE

Viewable Area	8.3" (h) x 6.3 (w); 10.4" diagonal
Addressability	Flexible Autoscaling
Resolution	1024x768; 122 CGPI (XGA)
Gray Levels	64 Gray Shades/Color
Luminance	0.03 fL to 200 fL
Viewing Angles	±60° Horizontal, +50°/-20° Vertical
Contrast Ratio	>5:1 Over Entire Viewing Cone
NVIS	Gen. III, Type I/II, Class A/B Configurable

PHYSICAL DESCRIPTION

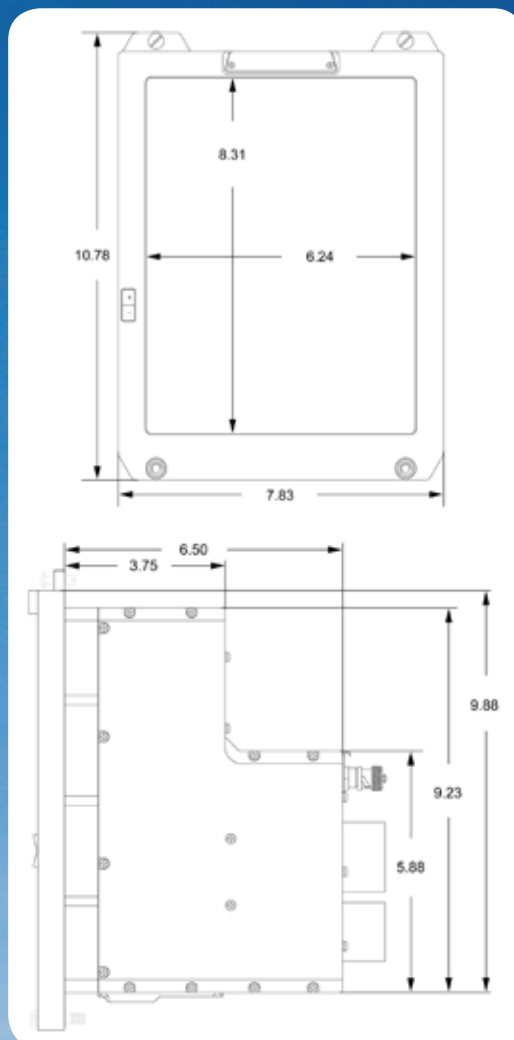
Dimensions	10.78" (h) x 7.8" (w) x 6.5" (d)
Weight	Nominal 14.0 lbs.
Cooling	Internal Fan
Primary Power	28 VDC, 120 Watts Nominal
Mounting	Adaptable
Bezel Configuration	EFIS, MFD, Custom
I/O Connector	STD M38999 Series III

FUNCTIONAL DESCRIPTION

Video Interface	Digital TAXI Bus
Video Out	NTSC
Signal Interfaces	MIL-STD-1553
Maintenance Port	RS-232
Inclinometer Optional	

ENVIRONMENTAL PERFORMANCE

Temperature	Operating: -54°C to +71°C Storage: -57°C to +85°C
Shock	15G op., 30G CS
Vibration	Method 514.2, MIL-STD-810C
Altitude	50,000 ft.
Reliability	5,000 Hours MTBF
EMI/EMC	MIL-STD-461/463



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communications
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L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.