

# Display Systems

## LARGE AREA AVIONICS DISPLAY (LAAD)

### 20"x8" ACTIVE MATRIX LCD

The Large Area Avionics Display (LAAD) is an Open Systems Architecture compatible multi-functional airbourne display. The LAAD presents clear, crisp, high-fidelity graphics and video overlays/windows onto a separately addressable, left and right 1280x1024 displays via one, monolithic 2560x1024 active matrix LCD.



#### KEY FEATURES

- Open Systems Architecture (OSA) Compatible
- Presents Crisp, Clear, High Fidelity Graphics and Video Overlays/Windows
- Dual Separately Addressable Left and Right 1280 x 1024 Displays via One, Monolithic 2560x1024 AMLCD
- Can be a "Dumb" Display only Device or "Smart", with Internal Graphics and Systems Processing
- Optional ARINC 818, Video Inputs, Touch Screen, MFD Bezel



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## LARGE AREA AVIONICS DISPLAY (LAAD)

### 20"X8" ACTIVE MATRIX LCD

#### OPTICAL PERFORMANCE

Viewable Area	20" (w) x 8" (h)
Addressability	Flexible Autoscaling
Resolution	2560x1024 (Dual Left/Right 1280x1024) 8-Bit Color
Luminance	0.025 fL to 260+ fL
Viewing Angle	±90° Horizontal/Vertical Inherent; Tuned to Mission Environment (Tactical, Transport, Rotary, Other)
Touch Screen	Dual Infrared; Anti-Reflective Coating
Contrast Ratio	>10:1 (High Ambient Lighting)
Backlight	Light-Emitting Diode (LED)
NVIS	Type II, Class B (MIL-L-85762)

#### PHYSICAL DESCRIPTION

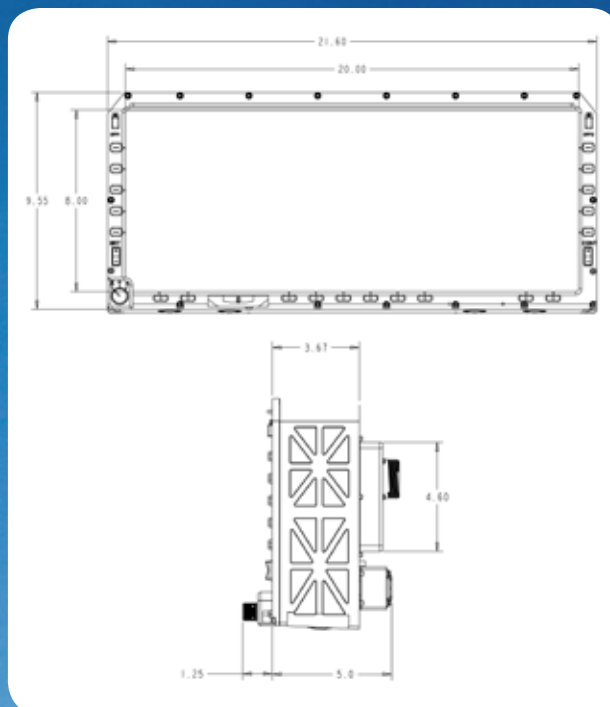
Dimensions	21.60" (w) x 9.55" (h) x 5.0" (d)
Weight	20 lbs Minimum
Cooling	Internal Fans
Primary Power	28 VDC, 5v Bezel, 250 Watts Nominal
Mounting	Adaptable
Bezel Configuration	MFD, Custom Inclinometer (Optional)

#### FUNCTIONAL DESCRIPTION

Video Interfaces	DVI (Copper or Fibre) ARINC 818 (Optional)
Signal Interfaces	RS-232/422 (4) Discretes 13 (Configurable) MIL-STD-1553 (Optional) ARINC 429 (Optional) ARINC 453/708A (Optional) RS-232/422/485 (2) (Optional) Fibre Channel (Optional) IEEE-1394 (Optional) Ethernet (Optional)

#### ENVIRONMENTAL PERFORMANCE

Temperature	Operating: -40°C to +71°C Storage: -54°C to +85°C
Ruggedization	Tactical Aircraft Environment
Altitude	65,000 ft.
Reliability	>5,000 Hours MTBF
EMI/EMC	Tactical Aircraft Environment



#### Display Systems

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**communications**  
Display Systems

**L-3.** Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C<sup>3</sup>ISR (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.