

LARGE AREA AVIONICS DISPLAY (LAAD)



20" x 8" Active Matrix LCD



The Large Area Avionics Display (LAAD) is an Open System Architecture compatible multi-functional airborne 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 System Architecture (OSA) compatible
- Presents crisp, clear, high fidelity graphics and video overlays/windows
- Dual separately addressable left and right 1280x1024 displays via one, monolithic 2560x1024 AMLCD
- Can be 'dumb' display only device or "smart", with internal graphics and systems processing
- Optional ARINC 818, video inputs, touch screen, MFD bezel



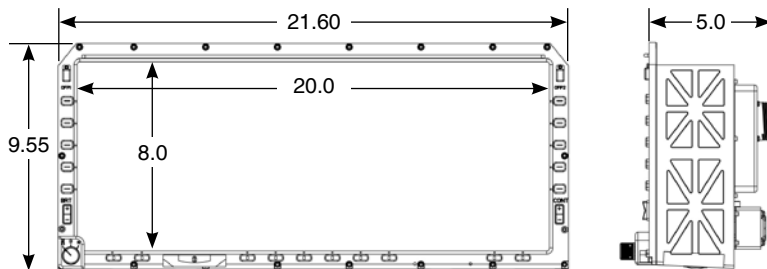
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20" x 8" Active Matrix LCD

SPECIFICATIONS

OPTICAL PERFORMANCE	
Viewable Area	20.0"(w) x 8.0"(h)
Addressability	Flexible autoscaling
Backlight	Light Emitting Diode (LED)
Resolution	2560x1024 (Dual Left / Right 1280x1024), 8-bit color
Luminance	0.025 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)
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	28VDC, 5VAC bezel, 250 watts nominal
Bezel Configuration	MFD, custom, inclinometer (optional)
FUNCTIONAL DESCRIPTION	
Video Interfaces	DVI (copper or fibre), ARINC 818 (optional)
Signal Interfaces	RS-232/422, discretes Optional: MIL-STD-1553, ARINC 429/453/708A, RS-232/422/485, Fibre Channel, IEEE-1394, Ethernet
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



The Large Area Avionics Display installed in the F-35 Lightning II

Display Systems

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Display Systems

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