

Ruggedized Command & Control Solutions

17-inch High Resolution Primary Flight Display

Key Features

- 17-inch SXGA TFT-LCD
- Shock and Vibration per MIL-STD-810E
- EMI MIL-STD-461E
- Wide viewing angles
- Dual RGB sync on green inputs
- RGB with Screen Repeater output
- RS-422 digital I/O
- Lightweight - 12.5 lbs.
- Compact design



The L-3 Communications Ruggedized Command & Control Solutions (L-3 RCCS) 17-inch flat panel display has set a new standard for avionics large primary flight display applications. This fully qualified and flight crash safety rated display brings high resolution, high reliability and wide viewing angle capability to the pilot and crew. The extremely lightweight and fully sunlight readable display assures the avionics integrator ease of system integration and greater flexibility of data presentation. With this L-3 RCCS display solution, there is never a need for compromise of performance by the user.



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17-inch High Resolution Primary Flight Display

SPECIFICATIONS

Functional

Active area	17-in diagonal (13.30" H x 10.64" V) (33.79 cm H x 27.03 cm V)
Maximum resolution	1280 x 1024 (SXGA)
Display colors	16.7 million
Display brightness	320 fL (1,100 nits) @ 23° C
Pixel pitch	.264 mm x .264 mm
Pixel configuration	RGB Pattern Vertical Alignment (PVA)
High ambient brightness contrast	>4.66@10,000 fc and 2,000 fL (MIL-L-85762A)
Dark ambient contrast	1,000 (typical)
Response time	Rise - 15 ms Fall - 10 ms
Dimming	0.05 fL to 320 fL
Viewing angle	± 85 degrees horizontal ± 85 degrees vertical
Reliability	MTBF of 25,000 hours
Lamp life	20,000 hours to half brightness
Interfaces	RS343 (RGB) Sync on Green

ENVIRONMENTAL

Temperature	
Warm-up:	< 5 min. @ -20°C Operational: -20° to 55°C Storage: -40° to 85°C
Humidity	95% non-condensing IAW MIL-STD-810E

ENVIRONMENTAL (CONTINUED)

Vibration	MIL-STD-810E Method 514.4 operational (propeller aircraft & turbine engines)
Shock	MIL-STD-810E, Method 516.4 Operational: 20g, 11 ms Crash safety: 40g, 11 ms
Altitude	35,000 feet @ 35°C
Rapid decompression	5,000 feet to 35,000 feet at a rate as high as one (1) inch of mercury per second
Salt atmosphere	MIL-STD-810E, Method 509.3
Sand/Dust	MIL-STD-810E, Method 510.3 Procedure I and II
Explosive conditions	MIL-STD-810E, Method 511.3
EMI/RFI	MIL-STD-461D

Physical

Dimensions	11.96" H x 14.35" W x 4.55" D (note: front panel depth is 1.75")
Weight	12.5 pounds
Cooling	Convection

Electrical

Power input	115 VAC 4000 Hz, 3 Phase (DELTA)
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Ruggedized Command & Control Solutions

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Specifications subject to change without notice. 01/08
17" HiRes PFD 03/05/08 ver. 1.0



L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system 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, systems and subsystems. The company reported 2006 sales of \$12.5 billion.

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