

RUGGED/COTS SERIES

SPECIFICALLY DESIGNED FOR SEVERE ENVIRONMENTS

- 24.0" COLOR ACTIVE MATRIX LIQUID CRYSTAL DISPLAY
- HIGH RESOLUTION 1920 X 1200
- ATTRACTIVE CONSOLE OR RACK MOUNT
- CONVENIENT FRONT CONTROLS
- DESIGNED AND BUILT TO MILITARY STANDARDS
- ANTI-REFLECTIVE PROTECTIVE WINDOW (STANDARD)
- WIDE VIEWING ANGLE $\pm 89^\circ$ (TYPICAL ALL DIRECTIONS)
- HD-15 (VGA), AND DVI-D
- OPTIONAL TOUCH SCREEN
- FLICKER COMPENSATION FOR DISPLAY OF SONAR ACOUSTIC DATA (OPTIONAL)



Specifications

Display Type:	24" TFT Active Matrix LCD
Active Display Area:	518.4 x 324.0 mm (20.41" x 12.96")
Pixel Pitch:	0.270 x 0.270 mm
Brightness:	250 cd/m2 (Minimum)
Viewing Angle:	$\pm 89^\circ$ All directions (Typical)
Contrast Ratio:	1000:1 (Typical)
Response Time:	16 ms Tr + Tf (Typical) 6 ms GtG (Typical)
Display Colors:	16 Million
Input Signal:	Video: Analog 0.7V p-p/75 Ω
	Sync: Separate sync. TTL level
	Horizontal Sync: Positive/Negative
	Vertical Sync: Positive/Negative
	Composite Sync: Positive/Negative
Input Interface:	Sync on Green (Video 0.7Vp-p and Sync 0.3Vp-p)
	VGA (HD15F), DVI-D (DVI Connector)
Video Input Impedance:	75 Ohms
Resolutions Supported:	640 x 480 @ 60 Hz
	720 x 400 @ 85 Hz
	800 x 600 @ 60 Hz
	1024 x 768 @ 60 Hz
	1280 x 1024 @ 60 Hz
	1600 x 1200 @ 60 Hz
Native Resolution:	1920 x 1200 @ 60 Hz
Display Controls:	Power, Brightness, OSD
Picture In Picture:	Horizontal and Vertical Position
Remote Control:	RS232 Interface for Control of Adjustments

Environmental

Temperature:	Operating: (Sea Level)	0°C to 50°C, MIL-STD-810E Method 501.3/502.3, Procedure II
	Storage:	-20°C to +60°C, MIL-STD-810E, Method 501.3/502.3, Procedure I
	Optional:	-40°C storage available
Humidity:	Operating/Storage:	5 to 95% RH Non-condensing MIL-STD-810E, Method 507.3 Procedure I
Altitude:	Operating:	0 to 15,000 ft. above sea level
	Storage:	0 to 40,000 ft. above sea level (MIL-STD-810E, Method 500.3)
Shock:	MIL-S-901D, Grade A, Class I Type A	
Vibration:	MIL-STD-167-1, Type 1	
Drip Proof:	MIL-STD-810E, Method 506.3 Procedure II, Front Panel only	
Sand/Dust:	MIL-STD-810E, Method 510.3, Front Panel only	
EMI:	MIL-STD-461E CE101, CE102, CS101, CS114, CS116, RE102, RS101, RS103	
Power Requirements:	Power Supply:	88-264 VAC Auto Ranging (+28 VDC Optional)
	Frequency:	47-63 Hz
	Power:	104 Watts (Typical)
	Chassis Connector:	MS3102A-10SL-3P
	Cable Connector:	MS3106A-10SL-3S
Dimensions & Weight:	Console Mount	
	Height:	15.72"
	Width:	24.00"
	Depth:	4.50"
	Weight:	24.2 lbs.
Compatibility:	PCs, Workstations & X-Terminals	
Options:	Resistive Touchscreen, Flicker Compensation for Display of Sonar Acoustic Data	

Aydin Displays' model 4424S flat panel display is designed for use in severe environments as encountered by the military. The 4424S is designed for the severe shipboard environments, which requires a solid mechanical design to protect the display against shock, vibration, EMI and temperature extremes.

AYDIN DISPLAYS

1 RIGA LANE BIRDSBORO PA 19508 USA

PHONE: 610-404-7400 FAX: 610-404-8190

TOLL FREE: 866-367-2934

WWW.AYDINDISPLAYS.COM

Aydin Displays is:

