

**8.4" Dual LCD – Grayscale Designed for FLIR Systems  
 Rugged Rack Mount Monitor MRD1808-400**



When it comes to quality FLIR equipment, Industrial Panels has everything you need. We have the highest-quality FLIR LCD screens that will enhance any military activity due to its reliability and durability. Industrial Panels offers an MRD1808-400 Grayscale Series. This series is exceptional, due to its dual LCD display, with an 8.4" rugged rack mount monitor designed for FLIR – Forward-looking, Infrared Imaging Systems used in COTS Military Display applications. Dynamic Displays specialize in Rugged Military Display Monitors with the ability to customize displays to meet the customer's Mil-Spec LCD requirements with design affordability. Our affordability, combined with our specialized in-house mechanical and electrical engineering group, makes the MRD1808-400 Grayscale Series perfect for your operation.

MRD1808-400 Grayscale Series works with FLIR Systems Thermal Imaging Cameras and uses an RS-170 or RS-343 Interlace monochrome/grayscale signal. The MRD1808-400 Grayscale Series conforms to standard EIA RS310C - 6 rack units in a 19" rack configuration. Using two 8.4" LCD high-resolution monitors (LED backlight) with separate OSD controls and video inputs for ease of adjustment and accessibility. This allows images to be crisp and clear.

The Dual 8.4" Ruggedized Monitor is designed to be a Mil-Spec Compliant Display used for various Military applications. If you're looking for COTS Military Monitors that use FLIR - Forward Looking Infrared Imaging Systems, the MRD1808-400 series Rackmount Military Display is an excellent choice for you.

**Features:**

- 8.4 In SVGA TFT LCD Display with Solid State LED Backlight.
- 800 x 600 Native Resolution.
- High Contrast: 600:1 Typical.
- High Bright TFT Display: 450 Nits.
- Wide Viewing Angle: 80R/80L – 80U/60L.
- Bonded Anti-Glare Protective Faceplate Glass for Superior Optical Performance and Enhance Protection on Extreme Environments.
- Analog RGB Sync On Green (SOG) – BNC.
- RS-170 (525 Line) & RS-343 (875-Line) Interlace Formats.
- 90-264VAC Auto Ranging Internal AC Power Supply.
- Aspect Ratio: 1:1 or 4:3 (OSD Selection).
- Extended Operating Temperature Rating: -30°C to +85°C.
- Convenient Front Controls.
- Internal Ruggedized Construction.

- Conformal Coating of Internal Assemblies for Enhanced Ruggedness.
- Rugged Industrial-Grade Steel Chassis.
- Heavy Duty Aluminum Front Bezel.
- Heavy Duty Cold Roll Steel Chassis.
- EIA RS310 D – 19" Rack Mount Standard.
- Front Mounted Handles.

**Options:**

- High Brightness TFT LCD Option – 1000 Nits.
- Custom Designs based on Customer's Exact Needs.
- MIL-Spec Compliance (MIL-STD-461E, MIL-STD-810F).
- 12VDC, 24VDC, 28VDC, and 48VDC Input Voltage.
- Aspect Ratio: 1:1 or 4:3 (OSD Selection).
- Differential Monochrome Video Input.
- 91 Ohm Video Termination.
- Wireless Remote Control.

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<i>Specifications:</i>	
LCD Size & Technology:	8.4 inch SVGA TFT LCD Module (Dual)
Viewing Area:	170.4(H) x 127.8(V) (Each)
Pixel Pitch:	0.213 mm x 0.213 mm
LED Life Time (min):	50,000 Hours
Viewing Angle (H/V, Typ.):	80°(R) / 80°(L) – 80°(U) / 60°(L) @ CR = 10
Contrast Ratio (Typ.):	600:1
Brightness (Typ.):	450 Cd/m <sup>2</sup>
Response Time (Typ. On/Off):	30 ms
Display Colors:	16.2M Colors
Supported Video Formats:	800 x 600 - Optimal Native Resolution Legacy Timing: 15KHz to 100KHz @ 55 to 85Hz.
Input Video Signals:	Video Analog: 0.7 Vpp @ 75 Ohms, Sync on Green Video 0.7 Vpp and Sync 0.3 Vpp
Video Input Interface:	BNC and AV Video
External Connectors:	1 BNC, RCA Jack, DC or AC Input.
Display Controls	OSD (On Screen Display) – Full functions

<i>Environmental</i>	
Temperature:	Operating: -30°C to +85°C Storage: -30°C to +85°C
Cold Start-Up:	Start-up @ 0°C 10min usable picture. 20 min. full spec.
Humidity:	Operating/Storage: 5 to 90% RH @ 40°C Non-Condensing.
Altitude Test:	Operating: 0 to 10,000 ft. above sea level Storage: 0 to 30,000 ft. above sea level
Shock:	Storage (Non-Operational): Acceleration: 50G Wave: Half-Sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (One Time for Each Axis)
Vibration:	Storage (Non-Operational): Acceleration: 1.5G Wave: Random Frequency: 10 to 200Hz Sweep: 30 Minutes each Axis (X, Y, Z)
Drop Test:	Height: 60 CM, Package Test
Thermal Shock:	-20°C/30 min, 60°C/30 min, 100 Cycles
Power Requirements:	Power Supply: 100-240 VAC Auto Ranging 50-60 Hz (Internal) or +12 VDC @ 1A (External) - Each. Power Dissipation: 10 Watts
Power Connector:	IEC320 Power Cord Standard
Dimensions & Weight:	Height: 10.47" (6U) Width: 19.0" Depth: 5.4"
Mechanical Configuration:	Rack Mount – 6 Units, EIA RS310 C
Bezel Finish:	Aluminum - Black Epoxy Powder Paint with Wrinkle Finish
Construction:	Metal Ruggedized for Severe Environments. All hardware secured with Loctite
Options	High Brightness TFT LCD Option – 1,500 Nits Wireless Remote Control Option S-Video (4 Pin Mini-Din) Differential Video Input for Enhanced Noise Immunity Touch Screen: Resistive, Capacitive, and SAW Conformal Coating of Internal Circuit Boards for Enhanced Ruggedization 91 Ohm Video Termination. 12VDC, 24VDC or 28VDC Input Voltage
Warranty	Two Year Limited Warranty

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