

**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 a 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. Industrial panels specializes 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 monochrome/grayscale signal. The MRD1808-400 Grayscale Series conforms to standard EIA RS310C-7 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:

- Solid State LED Backlight
- High Brightness: 450 Cd/M2 Typical
- High Contrast: 600:1 Typical
- Bonded Anti-Reflective Protective Faceplate Glass for Superior Optical Performance and Better Protection on Extreme Environments
- Wide Viewing Angle: 80R/80L – 80U/60L
- RS-170 (525 Line) and RS-343 (875-Line) Interlace Formats
- 15.75 to 100 KHz -Specially designed for Slow Scan Signals - Legacy Timings
- Standard VESA Input
- NTSC/PAL (RCA Jack)
- Picture-In-Picture (PIP)
- Picture-Outside-Picture (POP)
- Convenient Front Controls
- 110 / 220 VAC Input Voltage

- Extended Operating Temperature Rating: -30°C to +85°C
- EIA RS310 C – 19" Rack Mount Standard
- Heavy Duty Aluminum Front Panel
- Heavy Duty Cold Roll Steel Chassis
- Front Mounted Handles
- Internal Ruggedized Construction

Options:

- High Brightness TFT LCD Option – 1,500 Nits
- Wireless Remote Control Option
- Differential Video Input for Enhanced Noise Immunity
- 91 Ohm Video Termination.
- 12VDC, 24VDC or 28VDC Input Voltage
- Timings. Aspect Ratio: 1:1 or 4:3 (OSD Selection)

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<i>Specifications:</i>	
LCD Size & Technology:	8.4 inch SVGA Color 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 ²
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" (7U) Width: 19.0" Depth: 5.4"
Mechanical Configuration:	Rack Mount – 7 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