

**8.4" Dual LCD - Rugged Rack Mount Monitor
 MRD1808-405**

The MRD1808-405 rugged rack mount LCD monitors was designed specifically for COTS Military Display applications requiring 3 Buffered Unity-Gain BNC Outputs (RGB). Occupying only 6 rack units of a standard EIA RS310 D – 19" equipment rack, yet having two high resolution 8.4" LCD screens with completely independent OSD controls and video inputs. The MRD1808-405 provides image reproduction that exceeds all other displays available in a similar form factor.



This COTS LCD Display monitor features two (2) high performance, 8.4-inch Active Matrix Color TFT LCD panels with reliable, high-bright LED backlights and Bonded Anti-Glare Protective Faceplate Glass for Superior Optical Performance and better protection in extreme environments. The Dual 8.4-inch displays are mounted in a sturdy EIA RS-310 D 19" rackmount chassis. Capable of operating with legacy signal timings such as RS-170 (525 Line), RS-343 (875-Line) Interlace formats and NTSC/PAL Composite Video (RCA Jack) and S-Video (4 Pin Mini-Din).

If you need COTS Sealed Monitors, Rugged Marine Monitors, or just have a general-purpose need for rugged computer monitors, the MRD1808 series of COTS LCD Monitors is an excellent solution for your rugged display requirements.

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.
- RS-170 (525 Line) & RS-343 (875-Line) Interlace Formats.
- Analog RGB Sync On Green (SOG), Composite Sync or Separate Sync Inputs (5 BNC).
- 90-264VAC Auto Ranging Internal AC Power Supply.
- Aspect Ratio: 1:1 or 4:3 (OSD Selection).
- Picture-In-Picture (PIP).
- Picture-Outside-Picture (POP).

- 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.
- EIA RS310 D – 19" Rack Mount Standard.
- Front Mounted Handles.

Options:

- High Brightness TFT LCD Option – 1,000 Nits.
- Wireless Remote Control Option.
- 91 Ohm Video Termination.
- 12VDC, 24VDC or 28VDC Input Voltage.
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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: Separate or Composite Sync TTL Level (Positive/Negative) Sync on Green Video 0.7 Vpp and Sync 0.3 Vpp
Video Input Interface:	HD15 (VGA Analog), 5 BNC and AV Video (RCA Jack & Din-4)
External Connectors:	Analog HD15 D-Sub Input; 5 BNC, 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: Acceleration: 50G Wave: Half-Sine (Non-Operational): Active Time: 20 ms Direction: ±X, ±Y, ±Z (One Time for Each Axis)
Vibration:	Storage: Acceleration: 1.5G Wave: Random (Non-Operational): 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 D
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 – 1,000 Nits Wireless Remote Control Option 3 Buffered Unity-Gain BNC Outputs (RGB) Touch Screen: Resistive, Capacitive and SAW 91 Ohm Video Termination. 12VDC, 24VDC or 28VDC Input Voltage
Warranty	Two Year Limited Warranty

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