

## 8.4" Dual LCD - Rugged Rack Mount Monitor MRD1808 Series

The MRD1808 series of rugged rack mount LCD monitors are designed specifically for COTS Military Display applications. Occupying only 7 rack units of a standard EIA RS310 C – 19" equipment rack, yet having two high resolution 8.4" LCD screens with completely independent OSD controls and video inputs. The MRD1808 provides image reproduction that exceeds all other displays available in a similar form factor.



The MRD1808 is capable of operating with legacy signal timings such as RS-170 (525 Line) and RS-343 (875-Line) Interlace formats. Also, NTSC/PAL Video (RCA Jack), S-Video (5 Pin Mini Din) and VGA (HD15-DSub) Standard VESA Input Timings.

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:

- Dual High Definition 8.4" SVGA Color TFT LCD Display with 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
- RGB Composite Video input
- VGA HD-15D-Sub. Standard VESA Input
- Picture-In-Picture (PIP)
- Picture-Outside-Picture (POP)
- Convenient Front Controls

- 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
- NTSC/PAL (RCA Jack) and S-Video (5 Pin Mini Din)
- 3 Buffered Unity-Gain BNC Outputs (RGB)
- Differential Video Input for Enhanced Noise Immunity
- 91 Ohm Video Termination.
- 12VDC, 24VDC or 28VDC Input Voltage

## 8.4" Dual LCD - Rugged Rack Mount Monitor MRD1808 Series

Specifications:			
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.):	$80^{\circ}(R) / 80^{\circ}(L) - 80^{\circ}(U) / 60^{\circ}(L)$ @ 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: 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	splay Controls OSD (On Screen Display) – Full functions		

<u>Environmental</u>			
Temperature:	Operating:		
		-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:		Acceleration: 50G	
	Storage	Wave: Half-Sine	
	(Non-Operational):	Active Time: 20 ms	
	(	Direction: ±X, ±Y, ±Z (One Time for Each Axis)	
Vibration:		Acceleration: 1.5G	
	Storage	Wave: Random	
		Frequency: 10 to 200Hz	
	(Non operational).	Sweep: 30 Minutes each Axis (X, Y, Z)	
Dron Test:	Height: 60 CM, Package Test		
Thermal Shock:			
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Power Requirements:	Power Supply: 100-240 VAC Auto Ranging 50-60 Hz (Internal) or +12 VDC @ 1A (External) - Each.		
Davis Oassa atas	Power Dissipation: 10 Watts		
Power Connector:	IEC320 Power Cord Standard		
Dimensions & Weight:	Height: 10.47" (4U)		
	Depth: 5.4"		
Mechanical Configuration:	Rack Mount – 4 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		
High Brightness TFT LCD Option – 1,500 Nits			
15	Wireless Remote Control Option		
	NTSC/PAL (RCA Jack) and S-Video (5 Pin Mini Din)		
	3 Buffered Unity-Gain BNC Outputs (RGB)		
	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			