

**17" COTS Wall Mount Rugged LCD Display
 MRD1817W Rugged COTS Display Series**

Our 17" COTS Wall-Mount Rugged LCD Display (MRD-Series) was designed with shock and vibration safeguards provisions for extreme environments and designed to meet a wide variety of applications such as Shipboard, Airborne and Ground Mobile for use in extremely harsh conditions found in many rough COTS Military LCD Display Applications.

This unit is capable of operating with legacy timing 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. With the availability of selecting aspect ratios of 1:1 or 4:3 on all video inputs through the use of the On Screen Display (OSD) Menu.



The MRD1817 COTS Wall Mount Series is a 17" cost-effective LCD Display, packaged in a heavy duty cold roll steel enclosure with heavy duty aluminum front bezel, internal rugged construction and bonded Anti-Reflective protective faceplate glass for superior optical performance and better protection on extreme environments. These features make this 17" COTS Wall Mount Rugged LCD Display unit great for use in demanding applications that require graphics, video, and other RGB data on a single, rugged display.

Target application platforms for the MRD1817 COTS Wall Mount Rugged LCD Military Display Monitors include: Surface Ships Displays, Air Traffic Control, Military Navigation Display Monitor and Commercial-off-the-shelf (COTS) Military Displays Applications.

Features:

- 17.0 In SXGA TFT LCD Display with Solid State LED Backlight.
- 1280 x 1024 Native Resolution.
- High Contrast: 1000:1 Typical.
- High Bright TFT Display: 1200 Nits.
- Wide Viewing Angle: 85R/85L – 80U/80L.
- Bonded Anti-Glare Protective Faceplate Glass for Superior Optical Performance and Enhance Protection on Extreme Environments.
- Standard VESA VGA + DVI Input Timings.
- 15.75 to 100 KHz – Specially designed for Slow Scan Signals - Legacy Timings.
- Analog RGB Sync On Green (SOG), Composite Sync or Separate Sync Inputs (5 BNC).
- RS-170 (525 Line) & RS-343 (875-Line) Interlace Formats.
- NTSC/PAL Composite Video (RCA Jack) and S-Video (4 Pin Mini-Din).
- Color or Monochrome Operation - Factory Setup.
- 90-264VAC Auto Ranging Internal AC Power Supply.
- Aspect Ratio: 1:1 or 4:3 (OSD Selection).
- Front Manual Full Range Brightness and Contrast Control (Dimming).
- 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.
- Heavy Duty Aluminum Front Bezel.
- VESA 75/100 Standard Mounting.

Options:

- Custom Designs Available; Including Spec, Color, Finish and Format.
- NVIS Class A & B.
- NTSC/PAL Video (RCA Jack) and S-Video (4 Pin Mini-Din).
- TTL Video Input for EGA, CGA and MDA Timings.
- 12VDC, 24VDC, 28VDC, and 48VDC Input Voltage.
- 3 Buffered Unity-Gain BNC Outputs (RGB).
- Differential Video Input for Enhanced Noise Immunity.
- 91 Ohm Video Termination.
- Touch Screen: Resistive, Capacitive, and SAW.
- Wireless Remote Control.

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Specifications:	
LCD Size & Technology:	17.0" SXGA Color TFT LCD
Viewing Area:	337.920 mm (H) x 270.336 mm (V)
Pixel Pitch:	0.264 mm x 0.264 mm
LED Life Time (min):	50,000 Hours
Viewing Angle (H/V, Typ.):	170° / 160° @ CR = 10
Contrast Ratio (Typ.):	1000:1
Brightness (Typ.):	1200 Cd/m ²
Response Time (Typ. On/Off):	4 ms
Display Colors:	16.7M Colors
Supported Video Formats:	1280 x 1024 @ 60 and 75 Hz - 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
Environmental	
Temperature:	Operating: -30°C to 60°C Storage: -30°C to 85°C
Cold Start-Up:	Start-up @ 0°C 10min usable picture. 20 min. full spec.
Humidity:	Operating/Storage: 10 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: 10 200 -10Hz 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 @ 3A (External). Power Dissipation: 48 Watts
Power Connector:	IEC320 Power Cord Standard
Dimensions & Weight:	Height: 14.67" or 18.5" with Tilt and Swivel Base Width: 17.15" Depth: 3.3" or 11.4" with Tilt and Swivel Base Weight: 14.1 Lb. without Tilt & Swivel Base or Weight: 21.8 Lb. with Tilt & Swivel Base
Mechanical Configuration:	Table Top or VESA 75/100
Bezel Finish:	Aluminum - Black Epoxy Powder Paint with Wrinkle Finish
Construction:	Metal Ruggedized for Severe Environments. All hardware secured with Loctite
Warranty	Two Year Limited Warranty



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