

17" COTS Tabletop Rugged LCD Display MRD1817-TP Rugged COTS Display Series



Our 17" COTS Tabletop 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 extreme 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-TP COTS Tabletop 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 makes this 17" COTS Tabletop 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 Tabletop 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:

- Designed, Engineered and Built to comply with Military Standards.
- Operating Temperature Range: -30°C to 60°C
- 17" SXGA High Brite Color TFT LCD with Solid State LED Backlight Module.
- High Bright TFT Display, 1500 Nits.
- High Contrast – 1000:1 Typical.
- Bonded Anti-Reflective Protective Faceplate Glass for Superior Optical Performance and Better Protection.
- RS-170 (525 Line) & RS-343 (875-Line) Interlace Formats.
- 15.75 to 100 KHz - Designed for Slow Scan Signals.
- 5 BNC - RGB Sync On Green, RGB Separate Composite Sync or RGB Separate Sync.
- NTSC/PAL (RCA Jack) and S-Video (4 Pin Mini Din).
- VGA HD-15D-Sub. Standard VESA Input Timings.
- Aspect Ratio: 1:1 or 4:3 (OSD Selection).
- Convenient Front Controls.
- VESA 100 Standard Mounting.
- Heavy Duty Aluminum Front Panel.
- Heavy Duty Cold Roll Steel Chassis.
- Internal Ruggedized Construction.
- Picture-In-Picture (PIP).
- Picture-Outside-Picture (POP).
- 110 / 220 VAC, 12VDC, 24VDC or 28VDC.
- Auto Ranging Internal AC Power Supply.

Options:

- 91 Ohm Video Termination.
- Touch Systems; SAW, Resistive and Capacitive.
- Front Manual Full Range Brightness and Contrast Control.
- Wireless Remote Control.
- Conformal Coating of Internal Assemblies for Enhance Ruggedization.

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<i>Specifications:</i>	
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.):	1500 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
<i>Environmental</i>	
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 (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: 10 200 -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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