## 17" Rugged Modular Flat Panel Display MDR1817R Series

The MDR1817R is a 17" Rugged cost-effective LCD replacement for the Barco MRFD-243. Package in a rugged Panel-Mount enclosure, this monitor is designed for Extremely Harsh Environments for use in demanding applications that require graphics, video, and other RGB data on a single, rugged display. These NEMA 4 (IP65) Military Grade Flat Panel Displays are designed with shock and vibration safeguards, provisions for extreme temperature operation, high moisture safeguards, as well as Electromagnetic Environmental Interference protection for use in extreme vibration and/or harsh weather conditions found in many Land-based, Airborne, and Shipboard Military Applications.

Dynamic

QUALITY EXCELLENCE SATISFACTION

Target application platforms for the MDR1817R Rugged COTS LCD Monitors include: fixed-wing aircraft, helicopters, surface ships, submarines, ground vehicles, and mobile shelters.

Though rugged enough for most Land-based, Airborne, and Shipboard Applications, the MDR1817R 17" rugged LCD is versatile, as well. With options for 3 / 4 / 5 Wire BNC Inputs and RS17 / RS 343 Video Operation, the MDR1817R COTS LCD Monitors allow for easy insertion into legacy technologies and lower obsolescence risks.



With a Solid State LED Backlight and Full-Range Dimming to black, the rugged MDR1817R **LCD Military-Grade Monitor** can be fitted with an LED Filter Backlight for NVIS Operation

If you need COTS Sealed Monitors, Rugged Marine Monitors, or just have a general-purpose need for rugged computer monitors, our new MDR1817R COTS LCD Monitors is a COTS solution for your rugged display

## 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.
- 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).
- Extended Operating Temperature Rating: -30°C to +85°C.

- Conformal Coating of Internal Assemblies for Enhanced Ruggedness.
- Heavy Duty Aluminum Front Bezel.
- NEMA 4/12 & IP65 Front Panel.

## **Options:**

- Custom Designs Based on Customer's Exact Needs.
- 12VDC, 24VDC, 28VDC, and 48VDCInput Voltage.
- 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). Differential Monochrome Video Input for Enhanced Noise Immunity.
- Touch Screen: Resistive, Capacitive, and SAW.
- Wireless Remote Control.

## 17" Rugged Modular Flat Panel Display (1280 x 1024) MRD1817R Series

17.0" SXGA Color TFT-LCD
337.9 (H) mm x 270.4 (V) mm
0.264 mm x 0.264 mm
10, 000 Hours minimum
75° (Left), 75° (Right) / 70° (Up), 60° (Down) @ CR = 10
1000:1
1200 cd/m <sup>2</sup>
Tr = 2 ms, Tf = 6ms Typical
16.2M Colors
Up to 1280 x 1024 @ 60 and 75 Hz - Optimal Native Resolution
Legacy Products 15 to 100KHz Horizontal Freq.
Video: 0.7 Vpp @ 75 Ohms
Sync: Separate or Composite Sync TTL Level;
Sync on Green Video (SOG) 0.7 Vpp-Sync 0.3 Vpp
Horizontal: 15 to 100KHz; Vertical 50 to 75 Hz
HD15 (VGA Analog) & DVI-D
Analog HD15 D-Sub Input; Digital DVI Input, DC or AC Input.
100-240 VAC 50-60 Hz or +12 VDC @ 3A
FCC, CE, UL
Operating: 0° to 50°C @ 5-90% R.H.
Storage: -20° to 60°C @ 5-90% R.H
Operating: Max. 95% @ 40°C non-condensing
Operating: Up to 10,000 ft
Storage: Up to 30,000 ft
Operating: Call Sales for more information
Storage: 50 G
Start-up @ -25°C
3min. usable picture
20 min. full spec
Operating: Call Sales for more information
Storage: 1.5 G
Call Sales for more information
IEC 60950
Modular Mount
345mm (H) x 426" (W) x 105.9" (D)
Aluminum - Black Epoxy Powder Paint with Wrinkle Finish
Metal Ruggedized for Industrial Applications
20 Lb.
Two-Year Limited Warranty
Touch Screen: Surface Acoustic Wave (SAW) and Resistive
Screen Protection from Impact - Strengthened Glass
NTSC / PAL
NVIS Class A & B 5 BNC Input (RGB)