

17" Rugged Modular Flat Panel Display (1280 x 1024) QES1517R Series

The QES1517R is a 17" rugged cost effective LCD replacement for the Barco MRFD-243. Packaged 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 Landbased, Airborne and Shipboard military Applications.

Target application platforms for the QES1517R 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 QES1517R 17" rugged LCD is versatile, as well. With provisions for 3 / 4 / 5 Wire BNC Inputs and RS17 / RS 343 Video Operation, the QES1517R 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 QES1517R 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 QES1517R COTS LCD Monitors is a COTS solution for your rugged display

Features:

- Bright Active Matrix TFT Display, 800 Nits
- High Contrast – 1000:1 Typical
- Solid State LED Backlight
- 110 / 220 VAC or 12VDC, 24VDC or 28VDC Power
- Full-Range Dimming to Black
- Analog and/or Digital Inputs
- Analog RGB Sync On Green Capable
- Front Controls
- NEMA 4/12 & IP65 Front Panel
- Front Mounted Handles
- Heavy Duty Aluminum Front Panel
- Heavy Duty Cold Roll Steel Chassis

Options:

- Conformal Coating of Internal Circuit Boards for enhanced ruggedization
- RS170 & RS343 Interlace Formats
- 3 / 4 / 5 Wire BNC Inputs
- CGA, EGA, MDA Input Video
- Integrated Heaters for Extended Operational Temperature Capabilities
- Sunlight Readable
- Touch Systems: Resistive and Capacitive
- Strengthened Glass Protection
- Front LCD bonding for superior optical characteristics and protection against extreme environments

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

QES1517R Series

LCD Size & Technology	17.0" SXGA Color TFT-LCD
Viewing Area	337.9 (H) mm x 270.4 (V) mm
Pixel Pitch	0.264 mm x 0.264 mm
LED Life (min)	10,000 Hours minimum
Viewing Angle (H/V, Typical)	75° (Left), 75° (Right) / 70° (Up), 60° (Down) @ CR = 10
Contrast Ratio (Typical)	1000:1
Brightness (Typical)	800 cd/m ²
Response Time	Tr = 2 ms, Tf = 6ms Typical
Colors	16.2M Colors
Supported Video Formats	Up to 1280 x 1024 @ 60 and 75 Hz - Optimal Native Resolution Legacy Products 15 to 100KHz Horizontal Freq.
Input Video Signals	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
Input Video Interface	HD15 (VGA Analog) & DVI-D
External Connectors	Analog HD15 D-Sub Input; Digital DVI Input, DC or AC Input.
Power Requirements	100-240 VAC 50-60 Hz or +12 VDC @ 3A
EML/EMC Agency Approvals	FCC, CE, UL
Temperature	Operating: 0° to 50°C @ 5-90% R.H. Storage: -20° to 60°C @ 5-90% R.H.
Humidity	Operating: Max. 95% @ 40°C non-condensing
Altitude - Operating	Operating: Up to 10,000 ft Storage: Up to 30,000 ft
Shock	Operating: Call Sales for more information Storage: 50 G
Cold Start-Up	Start-up @ -25°C 3min. usable picture 20 min. full spec
Vibration	Operating: Call Sales for more information Storage: 1.5 G
Drip Proof - Operating	Call Sales for more information
Fungus	Call Sales for more information
Salt Fog	Call Sales for more information
Sand Dust	Call Sales for more information
Crash Proof – Non Operating	Call Sales for more information
Rapid Decompression	Call Sales for more information
Safety	IEC 60950
Mechanical Configuration	Modular Mount
Dimensions	345mm (H) x 426" (W) x 105.9" (D)
Bezel Finish	Aluminum - Black Epoxy Powder Paint with Wrinkle Finish
Construction	Metal Ruggedized for Industrial Applications
Weight	20 Lb.
Warranty	Two Year Limited Warranty
Options	Touch Screen: Surface Accoustic Wave (SAW) and Resistive Screen Protection from Impact - Strengeth Glass NTSC / PAL NVIS Class A & B 5 BNC Input (RGB) TTL Video Input Option for EGA, CGA and MDA

Dynamic Displays, Inc.
1625 Westgate Road – Eau Claire, WI 54703
1-800-793-6862 – Fax: (715) 835-2436
www.dynamicdisplay.com

0015063 Rev A