

BQM 817-DA

Maritime 17.0" Monitor for Radar / IEC 60945



- Type approved maritime Display
- Radar / IEC 60945 applications
- 17.0" color TFT flat panel
- 1280 x 1024 pixels (SXGA)
- Wide dimming backlight
- DVI and analog RGB inputs

This Technical Specifications describes the BQM 817-DA RADAR / IEC 60945 Display. Our product has designed to meet the standard specifications for Marine applications.

The full aluminum housing takes care for good temperature dissipation, high ESD and EMI protection and mechanical longevity. The electrical and mechanical components corresponds the highest level.

Wherever monitors are required for critical maritime applications, Baytek products will be the right choice. Baytek has incorporated unique characteristics in the BPM series that will simplify integration in existing systems, expand the lifetime of the products and reduce the total cost of ownership.

Quality and reliability guaranteed

We have our own manufacturing facilities and Color Calibration Center (CCC) to insure the Baytek high quality standards. So we are able to transform customer requirements into reliable solutions.

Our other product families for maritime and naval applications

BCM

Maritime Panel PCs for ECDIS & Radar

BPM

Maritime Monitors for ECDIS & Radar Applications

BQR

Rugged Data/Video Monitors for Defense & Naval Applications

BAYTEK

Industriesysteme GmbH
Leipziger Strasse 4
D-85386 Eching

Tel: +49 89 319 011-6

Fax: +49 89 319 011-700

Email: info@baytek.de

www.baytek.de

BQM 817-DA Specification

DISPLAY

LCD Panel Technology Active Matrix Liquid Crystal Display (AM-LCD) technology Amorphous silicon TFT (Thin Film Transistor) technology
 Screen Dimensions Aspect ratio: 5 : 4 (Landscape format) Active screen size: 337.92 (H) x 270.336 (V) mm (13.304" x 10.643") 432 mm (17.0")
 Screen Resolution 1280 (H) x 1024 (V) pixels Pixel arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe Dot pitch 0.088 (H) x 0.264 (V) mm (0.0034 x 0.010) Pixel pitch: 0.264 (H) x 0.264 (V) mm (0.010" x 0.010")
 Screen Luminance (Brightness) 350 cd/m² (typical) on LCD screen surface
 Backlight Dimming ratio: minimum 15 : 1 Contrast Ratio (at optimum viewing angle) 1000 : 1 (typical) in dark environment
 Viewing Angle Typical viewing angle: CR >= 10 : 1 - Horizontal: ±80° - Vertical: ±80°
 Response Time (at @ 25°C ambient temperature) Ton + Ton off (10% to 90% to 10%) 5 ms (typical)
 Color Temperature Typical 6790K Luminance Uniformity White non-uniformity <= 30%

SIGNAL INPUTS

Analog RGB Signal Timings and Levels VESA Standard 162.5 MHz bandwidth, up to 100 kHz H-frequency, up to 200 Hz V-frequency (UXGA 60 Hz)
 Auto-scaling to maximum flat panel resolution (VGA, SVGA, XGA and SXGA "up/down-scaling" to 1280 x 1024 pixels)
 700 mVpp (75 ohm asymmetrical, end unit) Analog RGB Synchronization Picture position, phase and size recognition with automatic self-adjustment capabilities (auto-phase / auto-tracking)
 Analog RGB Synchronization Picture position, phase and size recognition with automatic self-adjustment capabilities (auto-phase / auto-tracking)
 Separate external horizontal synchronization (HS) and vertical synchronization (VS); both signals with positive or negative level External combined synchronization (CS), negative or positive synchronization Composite synchronization on green (SOG)
 24-pin DVI-D Molex socket connector as DVI interface

FRONT & CHASSIS

Housing Characteristics: Full milled aluminum front bezel, aluminum chassis, salt water resistant
 Bolt type: 4x M6 bolts (front mounting) or 8x M4 bolts (rear mounting), Protected connectors area
 Standard Finishing: Standard front bezel color: RAL 9005, black, with structure
 Front side placed OSD button keypad
 3 mm anti-reflection mineral glass pane
 DC Power Connector for external power supply with 12 VDC output (-AC) Pin Supply Pin Supply 1 / 2 + 12 V 3 / 4 Ground Connector: Binder 4-pin with screw lock (male) Operating Value: 12 VDC Maximum Range: 12 VDC +/- 0.5V
 Dimensions (max.): 431 (w) x 378 (h) x 82 (d) [mm], weight: ~ tbf kg

CERTIFICATIONS

ECDIS Edition 4.0 IEC/EN 60945, IEC 950, CE

OPTIONS

Resistive glass touchscreen sensor pane + touch screen controller with RS-232 interface (-T)
 DC Power Connector for integrated wide range DC/DC power converter (-DC24) DC Input: 10 ~ 18 VDC, 18 ~ 32 VDC, or 36 ~ 72 VDC
 Connector: Binder 4-pin with screw lock (male) Operating Value: 24 VDC Maximum Range: 18 VDC to 32 VDC
 Alarm Buzzer Signal frequency: 3500 Hz (-BZ)
 Front bezel handles set (-HG)
 Video signal input 3x BNC (75 Ohm) connector (-V)
 IMO compliant color calibration (-DA)

