

BQR 1017

Rugged 17.0" Monitor



- Rugged Data / Video Monitor
- 19.0" color TFT Flat Panel
- 1280 x 1024 pixels (SXGA)
- Analog RGB / DVI interface
- MIL-STD, FCC-B, EN61000, CE, Nema 4

The BQR flat panel monitors were specially designed for long-term use in harsh conditions. To ensure years of fault-free operation in extremely severe conditions, the rugged chassis protects the electronics inside the monitors, developed using the latest long-life technology.

The Amphenol circular connector system used and the extraordinarily high electromagnetic compatibility with other electronic devices are important criteria when the BQR monitor is used in moving objects.

For outdoor use, the devices have heating and cooling regulation systems controlled via a microprocessor and a 5 mm mesh glass pane. In addition, the rugged, corrosion-resistant and sea water-resistant aluminum chassis has also been galvanized.

The BQR monitors comply with the IP65 protection rating, NEMA 4 and Drip Proof protection rating. They also have the MIL 461 and MIL 810 certifications.

Our other product families for industrial and harsh environmental applications

BayQad

Stand alone Monitors for Tripod Mounting

BQC

Rugged Panel PCs for Tripod Mounting

BayQad

Ruggedized Data/Video Monitors for Tripod Mounting



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BQR 1017 Specification

DISPLAY

432 mm (17.0") SXGA data and video flat panel display
 Active area: 327.92 mm (H) x 270.336 mm (V), Aspect ratio: 5:4 (H:V)
 Technology: Active matrix liquid crystal display (AM-LCD), Amorphous silicon TT (Thin Film Transistor) technology
 Color resolution: 16.7 million simultaneous colors, 256 gray values
 Screen resolution: 1280 (H) x 1024 (V) pixels
 Pixels arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe
 Dot pitch: 0.088 mm (H) x 0.264 mm (V), Pixel pitch: 0.264 mm (H) x 0.264 mm (V)
 Typical viewing angle: CR >= 10 : 1, Horizontal: ±89° / Vertical: ±89°
 Response time: Ton + Toff (10% - 90% -10%) typical 1,5 ms, maximal 20 ms
 Brightness: typical 300 cd/m2 at maximal backlight drive, Contrast rate: typical 1000:1

SIGNAL INPUTS

BayView AD6 DVI / analog RGB to 24-bit LVDS converter board
 Analog RGB input: 162.5 MHz bandwidth, up to 100 kHz H-frequency, up to 200 Hz V-frequency (UXGA 60 Hz), H-sync.(+/-), V-sync. (+/-), Composite sync. on (G)reen and H-sync.
 Picture position, phase and size recognition with automatic self-adjustment capabilities (auto-phase / auto-tracking)
 Auto-scaling to maximum panel resolution (VGA, SVGA, XGA, UXGA, PAL, NTSC, up- / down-scaling to 1280 x 1024 pixels)
 On-Screen-Display (OSD) for user specific adjustments, like: intensity, contrast, color, backlight brightness, etc.
 Setup parameters are saved in non-volatile memory
 Gamma correction tables, 8x8 bit for R, G and B each
 High performance de-interlacer for interlace to non-interlace movement artifacts suppression
 DC Power Input Connector (X1): Amphenol Series 1 LJT00RT-11-98P014 (6-pins)
 OSD Remote Interface Connector (X3): Amphenol Series 1 LJT00RT-13-98P014 (10-pins)
 DVI Interface Connector (X5): Amphenol Series 1 LJT00RT-13-35P014
 Grounding Point (GND): M6 bolt with thread nuts and lock washers

FRONT & CHASSIS

Integrated wide-range DC/DC converter with 24 VDC (18 to 32 VDC) input voltage (**-DC28**), Amphenol circular connector (PI)
 Microprocessor controlled voltages monitor with LED alarm (STATUS + POWER LED's)
 Microprocessor controlled heating and cooling functions, temperature monitor with LED alarm
 Front bezel sided OSD keypad, Power Standby On/Off key, monitor operation status LED's
 OSD Menu controlled LED brightness (red STATUS LED, amber HEATING LED and green POWER LED) and OSD keypad function LED's (amber)
 Photo sensor controlled LCD-Backlight brightness, OSD controlled functionality (ON/OFF and brightness offset)
 Full milled housing, saltwater-proofed Aluminum alloy with galvanic treatment
 Housing finish color: black, RAL 9005
 Fixing: 16x M4 thread holes (8mm deep) at the front bezel rear side
 5 mm anti-reflection meshed mineral glass pane
 Mechanically protected connectors area
 Outside dimensions: 431.8 (W) x 383.8 (H) x 102 (D) [mm]
 Weight: ~ 12.5 kg

CONFORMITIES

BTM: MIL-STD-167-1, MIL-E-5400, MIL-STD-891E, MIL-STD-810E, MIL-STD-810F,
 LA 01 G, LF 01 G, LF 02 G, SA 01 G, SA 04 G, SF 01 G, SF 02 G, MIL 461
 Full IP65 / NEMA4 compliance
 According to UL 60950, CSA C22.2 No. 60950 Ball Drop Tes
 Units meets IEC 950, CE

OPTIONS

Customized versions on request

