

BQR 1019

Rugged 19.0" Monitor



- Rugged Data / Video Monitor
- 19.0" color TFT Flat Panel
- 1280 x 1024 pixels (SXGA)
- Analog RGB interface
- FBAS/CVBS, and S-VHS inputs as option
- 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

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

BQR 1019 Specification

DISPLAY

480 mm (19.0") SXGA data and video flat panel display
 Active area: 376.3 mm (H) x 301 mm (V), Aspect ratio: 5:4 (H:V)
 Technology: a-Si TFT, active matrix
 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: 0.098 mm (H) x 0.294 mm (V), Pixel pitch: 0.294 mm (H) x 0.294 mm (V)
 Typical viewing angle: CR >= 10 : 1, Horizontal: ±88° / Vertical: ±88°
 Response time: Ton + Toff (10% - 90% -10%) typical 1,5 ms, maximal 20 ms
 Brightness: typical 600 cd/m2 at maximal backlight drive, Contrast rate: typical 1000:1

SIGNAL INPUTS

BayView AVD6 DVI / analog RGB / Video 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.
 Standard CVBS (Composite) and S-Video (Y/C) video inputs
 NTSC-M/N/4.43, PAL-M/N/B/G/H/I/D/K/L formats with auto-detection logic
 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
 Analog RGB Interface (VGA standard), Amphenol circular connector (X3)
 3x CVBS or 1x S-Video + 1x CVBS video inputs, Amphenol circular connector (X4)
 Remote Control functions: Remote-OSD and Firmware updates using the RS232 port, Amphenol circular connector (X1)

FRONT & CHASSIS

Power input: integrated wide-range 90 to 264 VAC 50/60 Hz power supply (-AC), or 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
 VESA 100 mounting (4x M4x8 thread holes), additional M4x8 thread holes at the rear upper and bottom side (8x)
 5 mm anti-reflection mached mineral glass pane
 Mechanically protected connectors area
 Outside dimensions: 449 (W) x 379 (H) x 97 (D) [mm] for the standard front bezel (-ST), 483 (W) x 399.2 (H) x 142 (D) [mm] for the 19" (9U), 102 mm deep without front handles (-19)
 Weight: ~ 13.5 kg

CONFORMITIES

MIL Compliances: MIL-STD-167-1, Type 1, MIL-E-5400, MIL-STD-891E, MIL-STD-810E, MIL-STD-461E, MIL-STD-461C
 IEC/EN 60945 Edition 4 2002-08 (Designed to meet), Unit meets FCC-B, EN 55022 Limit A
 EN 61000-4-x, EN 61000-6-2, Full IP65 / NEMA4 compliance
 According to UL 60950, CSA C22.2 No. 60950

OPTIONS

The 19" Rack/Console front bezel (-19) are delivered with front handles. The handles can be removed without housing opening (4x M5 thread holes)
 DVI Interface, Amphenol circular connector (X5)
 Analog RGB output (loop-through) circular connector (X4)
 One and two axis VESA 100 stands
 Touch Screen

