

BayQad 7156

Rugged 15.6" Stand-alone Data Monitor for Tripod Mounting



- Rugged Data Monitor
- 15.6" color TFT Flat Panel
- 1920 x 1080 pixels (HDTV/FHD)
- DVI & Analog RGB interface
- Operating temperature – 15° to +55°
- Milled aluminum housing

The passive cooling design of Baytek's BayQad monitors eliminates the need for ventilation openings. This design, in combination with the tough aluminum housing which is milled from solid aluminum, provides the ideal basis for all-over IP65 protection.

The chassis also has excellent shielding and dissipation characteristics. Independent test labs regularly verify the EMC (electro-magnetic compatibility) performance of BayQad monitors.

Resistance to shock and vibration and fault-free operation when the monitors are subjected to extreme temperature variations are also certified.

The BayQad monitors with internal DC/DC converters are available for mobile applications. The BayQad's comply with the VESA 100 mounting standard and can be easily attached to any stand.

A long service life and being service and maintenance free are particularly important criteria for components used in critical fields such as the pharmaceutical and food industries, and can be ensured by using BayQad monitors.

Our other product families for industrial and harsh environmental applications

BayPanel

Industrial Rack Mount Monitors

BQC

Rugged Panel PCs for Tripod Mounting

BQR

Rugged Data/Video Monitors for Defense & Naval Applications

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BayQad 7156 Specification

DISPLAY

LCD Panel Technology Active Matrix Liquid Crystal Display (AM-LCD) technology Amorphous silicon TFT (Thin Film Transistor) technology
 Aspect ratio: 16:9 (HDTV / FHD format)
 Active screen size: 344.16 (H) x 193.53 (V) mm (13.54" x 7.62") 396 mm (15.6")
 Screen Resolution 1920 (H) x 1080 (V) pixels Pixel arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe
 Dot pitch 0.059 (H) x 0.179 (V) mm (0.0023" x 0.0070") Pixel pitch: 0.179 (H) x 0.179 (V) mm (0.0070" x 0.0070")
 Screen Luminance (Brightness) 600 cd/m² (typical) LCD screen surface
 Contrast Ratio in dark environment (at optimum viewing angle) 800 : 1 (typical)
 Viewing Angle Typical viewing angle: CR >= 10 : 1 - Horizontal: ±80° (typical) Vertical: ±80° (typical)
 Response Time (at @ 25°C ambient temperature) Ton + Toff (10% to 90%) 30 ms (typical)
 Color Temperature Typical 6790K Luminance Uniformity White non-uniformity <= 30%

SIGNAL INPUTS

BayView AVD6 DVI / analog RGB / Video to 24-bit LVDS converter card
 Analog RGB Signal Timings and Levels VESA Standard 162.5 MHz bandwidth, up to 100 kHz H-frequency, up to 120 Hz V-frequency (UXGA 60Hz)
 Auto-scaling to maximum flat panel resolution (1920 x 1080 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)
 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)
 DVI-I Input Connector 29-socket MOLEX connector (female)
 OSD Remote Interface Connector: 9-socket D-SUB connector (female)
 Touch Screen Interface Connector: USB-B

FRONT & CHASSIS

Frontside placed OSD keypad
 Milled aluminum housing Standard front bezel color: RAL 9005, black, with structure Lacquer type: 2-component acrylate polyurethane paint
 All aluminum parts: transparent chromate treated (RoHs conformity) Milled aluminum housing: AlMg 4,5 MN, salt water resistant
 Housing finish color: black RAL 9005
 VESA-100 standard stand attachment, 12x M4x8 thread holes (4x for VESA-100 array)
 Analog resistive touch screen sensor pane + touch screen controller with RS-232 interface
 Mechanically protected connection area
 DC-Supply (integrated wide-range DC/DC Converter with 12 VDC output) Input Voltage Range: 18 to 36 VDC
 +24V Power Connector: Binder 4-pin with screw lock (male)
 Dimensions (max.): 385 (w) x 248 (h) x 67 (d) [mm], weight: ~ 4.4 kg

CERTIFICATIONS

Conformities: IP54, EN55011 Class A, FCC Class A, EN50081-1, EN50082-2, EN61000-4

OPTIONS

Allover IP65 / NEMA4 conformity (-IP65)

