

## BayQad 612-X

### Rugged 12.1" Stand-alone High Resolution Monitor for Tripod Mounting



- Rugged Data / Video Monitor
- 12.1" color TFT Flat Panel
- 1024 x 768 pixels (SVGA)
- Analog RGB interface
- CVBS and S-Video inputs as option
- 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 fast-paced 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 612-X Specification

## DISPLAY

307 mm (12.1") XGA data and video flat panel display  
 Active area: 245.76 mm (H) x 184.32 mm (V), Aspect ratio: 4:3 (H:V)  
 Technology: a-Si TFT, active matrix  
 Color resolution: 262,144 simultaneous colors, 64 gray values  
 Screen resolution: 1024 (H) x 768 (V) pixels  
 Pixels arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe  
 Dot pitch: 0.08 mm (H) x 0.24 mm (V), Pixel pitch: 0.24 mm (H) x 0.24 mm (V)  
 Typical viewing angle: 80/80/80/80 (Typ.)(CR≥10)  
 Response time: Ton + Toff (10% - 90% -10%) typical 3-15  
 Brightness: typical 450 cd/m2 at maximal backlight drive, Contrast rate: typical 900:1

## SIGNAL INPUTS

**BayView AVD6** DVI / analog RGB / video to 24-bit LVDS converter card  
 Analog RGB input: 162.5 MHz bandwidth, up to 100 KHz H-frequency, up to 200 Hz V-frequency (UXGA 60Hz), H-Sync. (+/-), V-Sync. (+/-), Composite-Sync. on G(green) and H-Sync.  
 Standard CVBS (Composite) and S-Video (Y/C) video inputs – as option  
 NTSC-M/N/4.43, PAL-M/N/B/G/H/I/D/K/L video formats with auto-decoding function  
 Picture position, phase and size recognition with automatic self-adjustment capabilities (auto-phase / auto-tracking)  
 Auto-scaling to max. flat panel resolution (VGA, SVGA, SXGA, UXGA, PAL, NTSC up-/down-scaling to 1024x768 pixels)  
 On-Screen-Display (OSD) for user specific adjustments, like: intensity, contrast, etc.  
 The setup parameters are saved in non-volatile memory  
 Gamma correction tables, 8x8 bit for R, G and B each  
 DB15 connector (HD DSUB) for analog RGB input (analog VGA standard connector)  
 3x BNC connectors configurable as: 3x CVBS, or 1x S-Video + 1x CVBS – as option  
 DB9 connector (DSUB) for Remote Control functions: Remote-OSD and Firmware

## FRONT & CHASSIS

Rear side placed OSD keypad  
 From de full milled aluminum housing, housing finish color: black RAL 9005  
 VESA-100 standard stand attachment, 12x M4x8 thread holes (4x for de VESA-100 array)  
 3 mm anti-reflection mineral glass pane or 3 mm Touch Screen sensor pane  
 Mechanically protected connection area  
 4-pin DC connector with Filter and screw lock  
 AC line input: external 90 to 264 VAC 50/60 Hz universal power supply with 12 VDC output  
 Dimensions (max.): 311 (w) x 234.8 (h) x 64 (d) [mm], weight: ~ 3.5 kg

## CERTIFICATIONS

Conformities: IP42, EN55011 Class A, FCC Class A, EN50081-1, EN50082-2, EN61000-4, external power supply:  
 UL1950 EN60950 AM1, AM2, AM3

## OPTIONS

DVI Interface with 26-socket Molex DVI-I connector, 2 meter DVI data cable  
 Analog-resistive Touch Screen sensor pane + touch controller with RS232 interface (-T variant)  
 DC-Power input: external DC-DC Converter Box with 12 VDC (10 to 16 VDC), 24 VDC (18 to 36 VDC) or 48 VDC (36 to 72 VDC) input and 12 VDC output voltage (-DC12, -DC24 or -DC48)  
 Allover IP65 / NEMA4 conformity (-IP65)

