

## BayPanel 821

### Industrial 21,3" Monitor



- Industrial Data / Video Monitor
- 21.3" color TFT Flat Panel
- 1600 x 1200 pixels (UXGA)
- Analog RGB interface
- CVBS and S-Video inputs as option
- Full-resolution NTSC/PAL

The BayPanel monitors were designed for the high demands of rough industrial environments.

These special long life monitors are optimally protected by antireflective, antistatic and extremely robust mineral glass screens available in various versions, optional acid-resistant touch screen can also be ordered.

#### Selection matrix and special frequencies

The BayPanel monitors are currently available in 8.4" through 22" versions. Thanks to the large selection matrix, every customer can be provided with a monitor which matches their specific requirements. Special frequencies from old machine control systems can also be configured upon request.

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 BayPanel monitors.

Our other product families for industrial and harsh environmental applications

#### BayQad

Stand-alone Monitors for Tripod Mounting

#### BQC

Rugged Panel PCs for Tripod Mounting

#### BQR

Rugged Data/Video Monitors for Defense & Naval Applications

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# BayPanel 821 Specification

## DISPLAY

540 mm (21.3") UXGA data flat panel display  
 Active area: 432 mm (H) x 324 mm (V), Aspect ratio: 4:3 (H:V)  
 Technology: a-Si TFT, active matrix  
 Color resolution: 16,7 million simultaneous colors; 256 gray values  
 Screen resolution: 1600 (H) x 1200 (V) pixels  
 Pixels arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe  
 Dot pitch: 0.090 mm (H) x 0.270 mm (V), Pixel pitch: 0.270 mm (H) x 0.270 mm (V)  
 Typical viewing angle: CR  $\geq$  10 : 1, Horizontal:  $\pm 85^\circ$  / Vertical:  $\pm 85^\circ$   
 Response time: tbf  
 Brightness: typical 700 cd/m<sup>2</sup>; Contrast rate: typical 1400:1

## SIGNAL INPUTS

**BayView AVDS** DVI, analog RGB and 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(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 video formats with auto-decoding function  
 Picture position, phase and size recognition with automatic self-adjustment capabilities (auto-phase / auto-tracking)  
 Auto-scaling to maximum flat panel resolution (VGA, SVGA, XGA, SXGA, NTSC, PAL up-scaling to 1600x1200 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 for R, G and B  
 High performance de-interlacer to minimize interlace to non-interlace movement artifacts  
 26-pin DVI-D Molex socket connector as DVI interface  
 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  
 DB9 connector (DSUB) for Remote Control functions: Remote-OSD and Firmware updates using the RS232 port

## FRONT & CHASSIS

Rear or front side (-K) placed OSD keypad  
 Milled aluminum front plate (10 mm thick) for rack mount applications with M6 mounting holes  
 Front plate finish color: black RAL 9005  
 3 mm anti-reflection mineral glass pane or 3 mm Touch Screen sensor pane (-T)  
 Robust aluminum chassis (1.5 mm thick) with 8x M4 threads for wall and machine attachments  
 Mechanically protected connection area  
 Euro line connector with integrated power On/Off switch, fuse and line filter  
 AC line input: 85 to 264 VAC 50/60 Hz (integrated universal power supply)  
 Dimensions (max.): 490 (w) x 400 (h) x 95 (d) [mm], weight: ~ 9.5 kg

## CERTIFICATIONS

Conformities: IP20 (IP65 front plate / IP20 chassis), EN55011 Class A, FCC Class A, EN50081-1, EN50082-2, EN61000-4, UL1950 / EN60950 AM1, AM2, AM3

## OPTIONS

Analog resistive touch screen sensor pane + touch screen controller with RS-232 interface (-T variant)  
 DC-Power input: 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)  
 Décor aluminum front plate, silver finish (-DE)  
 Front bezel handles set  
 Décor stainless steel front plate (-V2A)  
 OSD Keypad at front (-K)

