BayQad 7156

Rugged 15.6" Stand-alone SDI Monitor for Tripod Mounting

- Rugged SDI Monitor
- 15.6" color TFT Flat Panel
- 1920 x 1080 pixels (HDTV/FHD)
- 3G/DC/SD-SDI inputs / outputs
- Quad scale engine
- HDMI input

The BAYQAD 7156 is the first product witch use the brand new developed Baytek "Quad Scale Engine" interface board.

Four independent scale video path giving the most effective flexibility to scale and position up to 4 video signals on the screen simultaneous. The 3G/HD/SD-SDI inputs and the HDMI input enable to address a wide range of capabilities. The optical bonding of the panel with wide viewing angle subsidized the visual impression of the display. The technology is designed to deliver reliable performance even under harsh conditions in very demanding applications.

The chassis with IP44 protection on all sides keeps harmful substances such as dust and fluids from penetrating into the interior. The aluminum housing dissipates heat very efficiently without the need for annoying ventilation openings and it also shows excellent EMC properties.

A Vesa 100 mounting is provided on the rear of the cabinet.

Baytek prides itself on quality, performance reliability and flexibility

Baytek offers a wide range of sizes and options to meet customers' requirements.

Our other product families for military and naval applications

BayQad

Rugged 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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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)   400 cd/m² (typical) on center of LCD screen surface 260 cd/m² (typical) on center of Touch Screen sensor pane surface

Contrast Ratio in dark environment (at optimum viewing angle) 1500 : 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)

Dimming: 0 to 100% Power consumption: typ. 60 W

Optical bonded display

SIGNAL INPUTS

4 x 3G/HD/SD-SDI SMPTE 259/296/274/425-1

1x 3G/HD/SD-SDI SMPTE 259/296/274/425-1 output

1x HDMI   up to WUXGA 1920x1200

1x SFP (future development)

1x SFP (future development)

4 independent multi format video path. De-Interlacer, croper, scaler, rotate, mirror. Integrated testpattern generator.

Graphic overlay (for label, informations, etc.)

FRONT&CHASSIS

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

Standard MIS-F, VESA 100 mounting compatible (4x M4 -8 treat holes)

Additional mounting points (8x M4-8 thread holes)

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.): 400 (w) x 230 (h) x 74.5 (d) [mm], weight: ~ 5.1 kg

REMOTE CONTROL/CONFIGURATION

Ethernet 10/100/1000Base-TX

Web based configuration application, predefined system presets

External remote control protocol

CONFORMITIES

MIL-STD 461-F, MIL-STD 10, C, front plate IP65, cabinet IP42;

OPTIONS

Various SFP modules