



21.3" 11U Rackmount Marine Monitor



A high resolution marine quality monitor that offers flexible mounting combinations such as 100mm VESA standard fixings at the rear, and a separate mounting bracket for control desk or overhead positioning. The TFT Monitor is manufactured in full compliance with IACS E10. The flat panel is designed with ECDIS and Radar in mind and to specifically meet the stringent demands of shock, vibration, EMC and EMI defined in the IEC 60945 International Standard for Maritime Navigation and Radio Communications Equipment & Systems. The monitor offers continuity by design for all navigation and ship automation applications.

FEATURES

- 21.3" Bright Active Matrix TFT Display, 250 nits (cd/m²)
- A multitude of Video Inputs: Analog RGB 0.7-1.0V p-p, 75 ohm, PAL/NTSC
- Optical Bonding for added Shock & Vibration protection and/or reduced solar reflectivity (**VBOND**)
- Advanced Deep Dimming 2000:1
- Compliant to IEC 60945
- Contrast Enhancing AR Safety Glass
- ECDIS & Radar Compliant
- Video Buffer & Remote Control
- High Contrast Ratio & Definition, Outstanding Vivid Color & Image Quality
- Wide Color Gamut
- 16.8 million colors
- Energy Efficient, Low Power Consumption
- High Environmental Performance and Reliability
- Anti-Reflective Protective Window
- UXGA (1600 x 1200) Resolution
- Wide Operational Temperature Range, -15°C to +55°C (5°F to +131°F)
- RoHS Compliant
- Engineered and Manufactured by VarTech Systems, an ISO 9001 Registered Company
- **Engineered, Fabricated and Assembled in the USA**
- Two (2) Year Warranty

*Supports all VESA standard video formats

CONTACT

HEADQUARTERS

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SPECIFICATIONS

Display Size

21.3 Inch

Panel Type

TFT Active

Resolution Capabilities

UXGA*

Pixel Format

640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200*

Dot Pitch

.27mm

Active Display Area

17.01"(w) x 12.76"(h)
432mm(w) x 324mm(h)

Viewing Angle

Left / Right: 85°
Up / Down: 85°

Contrast Ratio

500:1 min

Brightness

250 cd/m² typical

Backlight

50,000 hours typical - Lamps
replaceable x2 triple CCFTs

Colors Supported

16.7 million (graphic card dependant)

Scan

Horizontal: 31-106 KHz
Vertical: 60-85Hz

Input Connectors

RGB Signal - 15-pin HD Female (D-Type); **Video Signal** - RCA + S-video socket; **RS232 Remote Control** - 9-pin Male D-Type; **Power** -3-pin IEC male

Video Input

Analog RGB 0.7-1.0V p-p, 75 ohm, PAL/NTSC & SEACAM with Picture-in-Picture, DVI

User Controls

Front Panel - Power on/off (pushbutton). Rotary; Brightness (ratio 2000:1) & Contrast (pushbuttons); Power LED indicator

Behind Cover on Front Panel - OSD Functions

Sync

Separate H/V (+/-ve) TTL or Composite (-ve) TTL

Power Source

90-265V AC 50/60 Hz Internal

Power Consumption

65W max

Temperature

Operating: -15 to 55°C
Storage: -20 to 60°C

Humidity

Operating: 30 to 90%NC
Storage: 10 to 90%NC

Shock

10g, 11msec 1/2 sine

Vibration

+/-1mm, 2 to 13Hz:0.7g, 13 to 100 Hz

Response Time

25 ms average, typical

Housing

Aluminum; Toughened, optically coated and contrast enhancing; Trans mission 90% min; Front panel IP65 (NEMA 4)

Monitor Dimensions

21.02"(w) x 18.94"(h) x 3.23"(d)
534mm(w) x 481mm(h) x 82mm

Weight (approx)

28.6lbs. / 13kg

OPTIONS

- 90-264V AC Power standard, (optional 12VDC, 24VDC or 9-36VDC available)
- Touch Screen: Capacitive or Resistive Touch
- NEMA 4 or 4X (IP65/IP66) Protection
- Sunlight Readability Technology
- Impact Resistant Protective Windows
- Custom Designs based on Customer's Exact Needs

APPROVALS

- ECDIS & Radar Compliance - IEC 61174 via BSH, Germany
- EMC & Safety - EN 50081-1 (Emissions), EN 50082-2 (Immunity), EN 60950 (Safety)
- Marine Communications - IEC 60945: 4th Edition