



All-Weather Fully Sealed IP67 (NEMA 6) Extreme Operational Temp Sunlight Readable LCD with 6 Programmable Function Buttons



VarTech's 12.1" touch screen **All-Weather, All-Terrain**, Harsh-Duty LCD Display System is waterproof (fully submersible) and engineered to withstand the harshest environments and most demanding real world applications.

This high resolution (**native XGA, 1024 x 768**), is equipped with VarTech's proprietary **Enhanced Light Transmission Technology (ELTT)** which allows for **true Sunlight Readability** and as well provides exceptional clarity and viewing angles. This advanced user friendly LCD display system provides extensive operational temperatures of -20° to +70°C (standard) or -45°C to 70°C (optional) and unprecedented video input.

FEATURES

- ◆ Completely Sealed IP67 (NEMA 6) Submersible Black Powder Coated Aluminum Enclosure
- ◆ Harsh Duty LCD Panel w/ Optically Bonded Overlay
- ◆ True High Brightness Low-Power, high reliability **Solid State LED Backlighting**
- ◆ 6 Programmable Function Keys on Front Side Below Display
- ◆ Optional Armor Touch - 3mm Thermally Strengthened Laminated Glass Substrate Optically Bonded overlay with Anti-Reflective Field & UV Protection
- ◆ VarTech's advanced VTLED driver technology
- ◆ XGA native Resolution
- ◆ Ultra-Wide Viewing Angles
- ◆ Very High Contrast
- ◆ Extreme Wide Operational Temperatures
- ◆ Variable Power Supply, 9 to 36 VDC (Optional AC Power)
- ◆ Shock: MIL-S-901D*
- ◆ Vibration: MIL-STD-167*
- ◆ Environmental Design: MIL-STD-810F*
- ◆ EMI/EMC: FCC Class B* (optional 461E)
- ◆ Marine IEC 60529*
- ◆ Marine IEC 60945*
- ◆ One-Touch Toggle Between Multiple Video Feeds

** Designed to Meet*

CONTACT

HEADQUARTERS

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SPECIFICATIONS

Construction

IP67 (NEMA 6) Fully-Enclosed Submersible Black Powder Coated Aluminum Enclosure

Display Size – Viewable Area

12.1 inches

Panel Type

Harsh Duty LCD cell w/ Optically Bonded Protective Overlay (VBOND)

Resolution

XGA 1024 x 768 native

Brightness

True High Brightness: 1200 nits (cd/m2)
Low-Power, high reliability **Solid State LED Backlighting**

Backlight MTBF

100,000 hours

Dimming

Advanced Deep Dimming - 0-100%

Backlight Driver

VarTech's advanced VTLED driver technology, the latest in technology for driving solid state High Bright Light Emitting Diodes (HBLEDs)

Viewing Envelope: Horizontal

70° / 70°

Viewing Envelope: Vertical

Up: 45° / Down: 55°

Contrast Ratio

600:1

Video Input (Available Configurations Customer's Choice)

Mil-C-38999 21 pin connector, MS27468T13B35P, includes 1 VGA and 2 USB

Video Controller

VarTech's Harsh Environment Controller Board – MTBF in Excess of 260,000 hours

Electrical Input

- Power Cable Mil-C-38999
- Harsh Duty Variable Power Supply, 9 to 36 VDC, Wide Range, Low Noise, Wide Operational Temperature (Optional AC Power, Universal Input 85 to 264 VAC)

Wide Operational Temperatures

Standard -20° to +70°C (-4°F to 158°F)
Optional -45° to +70°C (-49°F to 158°F)

Storage Temperature

-40° to +75°C (-40°F to 167°F)

Humidity

Operating: 0 to 100%

Altitude

10,000 ft. (optional 45,000 ft.)

Shock

Designed to Meet MIL-S-901D

Vibration

Designed to Meet MIL-STD-167

Environment

Designed to Meet MIL-STD-810F

Marine

Designed to Meet IEC 60529

EMI / EMC

Designed to Meet FCC Class B (optional 461E)
Designed to Meet IEC 60945

Programmable Front Side Function Keys

6 function keys designed to be programmed through usb to emulate a keystroke F1,F2,F3,F4,F5,F6 on a standard Windows Keyboard (3540146-R2)

Cables

- 1 cable for Mil-C-38999 21 pin connector, MS27468T13B35P, includes 1 VGA and 2 USB (optional touch is run through one of these USB)
- 1 cable for Power Cable Mil-C-38999

Dimensions (Tentative)

Width - 13.5"
Height - 10.5"
Depth - 3.35"

Optional Touch Screen

VarTech's Armor Touch - 3mm Thermally Strengthened Laminated Glass Substrate Optically Bonded overlay with Anti-Reflective Field & UV Protection

Mounting

VESA Mounting - standard
RAM Mounting - optional
Flush Mounting - optional
Handles (top or left & right) - optional
Pedestal Mounting - optional

Electrical Protection

Internal Short Circuit Protection, Load Dump Protection, Over Voltage Protection, Reverse Polarity Protection

Night-Vision Compliance (optional)

NVIS MIL-STD-3009 Class B Gen 3 (MIL-L-85762A)

Warranty

2 years

