


**All-Weather All-Terrain Fully Sealed IP68 (NEMA 6P) Submersible
 Extreme Operational Temperature Sunlight Readable LCD**

VarTech's 8.4" **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 SVGA 800 x 600 native (optional 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 capabilities from traditional VGA to up to **FOUR individual direct composite BNC video feeds with easy one-touch toggle select function between all feeds!**

FEATURES

- ◆ Completely Sealed IP68 (NEMA 6P) Fully-Enclosed Submersible Enclosure
- ◆ Harsh Duty LCD Panel w/ Optically Bonded Overlay
- ◆ True High Brightness Low-Power, high reliability **Solid State LED Backlighting**
- ◆ VarTech's advanced VTLED driver technology
- ◆ SVGA native Resolution
- ◆ Ultra-Wide Viewing Angles
- ◆ Very High Contrast
- ◆ Extreme Wide Operational Temperatures
- ◆ Variable Power Supply, 10 to 36 VDC (Optional AC Power)
- ◆ Shock: MIL-STD-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

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SPECIFICATIONS

Construction

IP68 (NEMA 6P) Fully-Enclosed Submersible Enclosure

Display Size – Viewable Area

8.4 inches

Panel Type

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

Resolution

Standard: SVGA 800 x 600 Native
 Optional: XGA 1024 x 768 native

Brightness

True High Brightness:
 Standard SVGA Type: 1000 nits (cd/m²) , 292 fL
 Optional XGA Type: 800 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

Standard SVGA Type: 80° / 80°
 Optional XGA Type: 85° / 85°

Viewing Envelope: Vertical

Standard SVGA Type: 80°(up) / 60°(down)
 Optional XGA Type: 85° / 85°

Contrast Ratio

Standard SVGA Type: 600:1
 Optional XGA Type: 400:1

Video Input (Available Configurations Customer's Choice)

- IP68 Sealed VGA Connector for Computer interface
- IP68 Standard PC connection and direct video feed via single IP68 BNC connector (optional S-video)
- IP68 Standard PC connection and direct video feed via dual IP68 BNC connectors
- Direct video feed via up to **FOUR** individual IP68 Composite BNC connectors
- Direct video feed via IP68 S-video connector

Electrical Input

Harsh Duty Variable Power Supply, 10 to 36 VDC, Wide Range, Low Noise, Wide Operational Temperature (Optional AC Power, Universal Input 85 to 264 VAC)

Video Controller

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

Wide Operational Temperatures

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

Storage Temperature

-40° to +75°C (-40°F to 167°F)

Humidity

Operating: 0 to 100%

Altitude

45,000 ft.

Shock

Designed to Meet MIL-STD-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

Cables

Length - 3m (9'10") each
 Available IP68 Connector (monitor end) Cables:
 Power
 Video - 15-pin D-Sub
 Touch (optional) - Serial or USB
 Direct Composite BNC Video Feed (optional)

Dimensions (Tentative)

Width - 9.90" (251.46mm)
 Height - 6.90" (175.26mm)
 Depth - 2.25" (57.15mm)

Touch Screen (optional)

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

Mounting

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

www.vartechsystems.com