



**All-Weather All-Terrain Fully Sealed IP67 (NEMA 6) Submersible  
Extreme Operational Temperature Sunlight Readable LCD**



VarTech's 10.4" **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 (**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 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

- ◆ Fully 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**
- ◆ VarTech's advanced VTLED driver technology
- ◆ XGA native Resolution
- ◆ Ultra-Wide Viewing Angles , Very High Contrast
- ◆ Extreme Wide Operational Temperatures
- ◆ One-Touch Toggle Between Multiple Video Feeds

### Marks of Conformity:

FCC47 CFR part 15, subpart B  
EMC: EN 55022:2006, EN 55024:1998, CISPR 22:2005, CISPR 24:1997  
Canada: ICES-003  
Australia/New Zealand: AS/NZS CISPR 22  
CE  
RoHS  
WEEE



## SPECIFICATIONS

### Construction

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

### Display Size – Viewable Area

10.4 inches

### Panel Type

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

### Resolution

XGA 1024 x 768 native

### Brightness

True High Brightness: 900 nits (cd/m2) , 263 fL  
Low-Power, high reliability **Solid State LED Backlighting**

### Backlight MTBF

65,000 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

85° / 85°

### Viewing Envelope: Vertical

85° / 85°

### Contrast Ratio

700:1

### Video Input (Available Configurations Customers Choice)

- IP67 Sealed VGA Connector for Computer interface
- IP67 Standard PC connection and direct video feed via single IP67 BNC connector (optional S-video)
- IP67 Standard PC connection and direct video feed via dual IP67 BNC connectors
- Direct video feed via up to **FOUR** individual IP67 Composite BNC connectors
- Direct video feed via IP67 S-video connector
- Also available with MIL-DTL-38999 connectors

### Video Controller

VarTech's Harsh Environment Controller Board

### Electrical Input

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)

### Max Power Requirements

28 watts, 35 watts w/heater

### Weight

6.5 lb

### 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

### Cables

Length - 3m (9'10") each  
Available IP67 Connector (monitor end) Cables:  
Power  
Video - 15-pin D-Sub  
Touch (optional) - Serial or USB  
Direct Composite BNC Video Feed (optional)

### Dimensions

Width - 11.60" (294.64mm)  
Height - 8.13" (206.50mm)  
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)

### Overlay (optional and available only with non-touch)

Chemically Strengthened Bonded Overlay

### Warranty

2 years

## CONTACT

### HEADQUARTERS

11529 Sun Belt Ct.  
Baton Rouge, Louisiana 70809

**Phone** 800.223.8050

### International

001.225.298.0300

**Fax** 225.297.2440

### E-mail

sales@vartechsystems.com

### Website

www.vartechsystems.com