


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


VarTech's 12.1" **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
- ◆ 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



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

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

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

70° / 70°

Viewing Envelope: Vertical

Up: 45° / Down: 55°

Contrast Ratio

600:1

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

32 watts, 40 watts w/heater

Weight

8.2 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 - 13.0" (333.20mm)
 Height - 9.20" (233.68mm)
 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