

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



VarTech's 15.0" **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

- ◆ Completely Sealed IP67 (NEMA 6) Fully-Enclosed Black Powder Coated Submersible 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
- ◆ Wide Viewing Angles, Very High Contrast
- ◆ Extreme Wide Operational Temperatures
- ◆ Variable Power Supply, 9 to 36 VDC (Optional AC Power)
- ◆ One-Touch Toggle Between Multiple Video Feeds

SPECIFICATIONS

Construction

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

Display Size – Viewable Area

15.0 inches

Panel Type

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

Resolution

XGA 1024 x 768 native

Brightness

True High Brightness 1500 nits (cd/m²), 439 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

75° / 75°

Viewing Envelope: Vertical

UP: 75° / Down: 55°

Contrast Ratio

450:1

Video Input (Available Configurations Customer's 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)

Power Usage

Typical 35watts
Maximum 55watts (58 watts w/heaters)
Sleep mode 8watts

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)

Weight

11.8 lb

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 (Tentative)

W - 14.86" (377.44mm), H - 11.00" (279.40mm),
D - 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

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



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