keetronics®
(India) Pvt. Ltd.
कीट्रॉनिक्स् (इंडिया) प्रा. लि.

TRULY
भारत MADE
में IN
निर्मित BHARAT

MIL-STD-810G & 461G COMPLIANT

Product image is for reference only. Actual product may vary.*

MIL-STD-810 Rugged Display Monitors

Rugged Tactical Monitors

High-reliability MIL-STD-810 rugged display monitors engineered to survive extreme shock, vibration, and harsh environmental conditions in combat, marine, and aerospace applications. Fully compliant with MIL-STD-810G (shock, vibration, extreme temperatures, humidity) and MIL-STD-461G (electromagnetic compatibility). Built with fully sealed IP67/IP68 aluminum casings, military-grade MIL-DTL-38999 circular connectors, electromagnetic interference shielding, and advanced optical bonding. Featuring Projected Capacitive (PCAP) multi-touch controls, sunlight readability, and isolated wide DC inputs (18V-36V) with MIL-STD-1275D surge protection.

- ✓ **MIL-STD-810G Ruggedness**
- ✓ **MIL-STD-461G EMI Shielded**
- ✓ **MIL-DTL-38999 Connectors**

Key Highlights

MIL-STD-810G Rugged Compliance	**MIL-STD-461G** EMI/EMC Shielded	**MIL-38999 Ports** Circular Connector	**IP67 Sealed** Immersion Proof
MIL-1275 Power Surge Protected			

Note: Our displays are designed to meet applicable test requirements; final compliance depends on integration and validation within the complete system.

Premium MIL-STD-810 Rugged Display Features

MIL-STD Ruggedness

Fully compliant with MIL-STD-810G standard testing protocols for high mechanical shock, gunfire vibration, and salt fog.

MIL-STD-461G EMI/EMC

Integrated ITO conductive electromagnetic shielding layers block RF emission and external microwave interference.

MIL-DTL-38999 Connectors

Utilizes heavy-duty circular metal shell connectors with screw-threaded couplings to prevent disconnection.

Sunlight-Readable LCD

Ultra high-brightness display panels up to 1500 nits with custom anti-reflective (AR) optical bonding layers.

Sub-Zero ITO Heater

Automatic glass-level transparent heater maintains liquid crystal fluid motion down to extreme -40°C temperatures.

MIL-STD-1275D DC Power

Power converters support wide isolated inputs (18V-36V) filtering vehicle spikes, ripples, and high surges.

Engineered for MIL-STD-810 Tactical Environments

Our MIL-STD-810 rugged display monitors are designed from the ground up for command centers, armored combat vehicles, and naval bridges where hardware failure is not an option. Certified to meet stringent MIL-STD-810 environmental testing standards, these displays are built with a high-rigidity milled aluminum chassis and anti-corrosive powder coatings to withstand intense mechanical shock, constant gunfire vibration, and salty sea air. By incorporating MIL-DTL-38999 circular connectors and EMI-shielded ITO glass, the display unit remains fully watertight and electronically silent. The optical clear LOCA lamination ensures high legibility under harsh sunlight and blocks any internal air-gap condensation in humid jungle or sub-zero arctic climates.

- ✓ **Full compliance with MIL-STD-810G shock and vibration profiles**
- ✓ **MIL-STD-461G EMI/EMC protection with ITO shielded cover glass**
- ✓ **MIL-DTL-38999 threaded circular watertight metal connectors**
- ✓ **Wide temperature operation (-40 to +75°C) with automatic ITO glass heater**

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MAKE IN INDIA

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Technical Specifications

Computing/Signal Input	
Video Inputs	HDMI, VGA, SDI via MIL-38999
Touch Interface	USB 2.0 (HID) via MIL-38999
OSD Controller	Internal scaler control system
Power Input	18V to 36V DC isolated (MIL-1275D)
EMI Compliance	MIL-STD-461G EMC shielded

LCD Display Parameters	
Screen Sizes	8.4" to 21.5" diagonal active
Brightness	500 to 1500 nits sunlight-read
Contrast Ratio	1000:1 high contrast liquid
Viewing Angles	178° H / 178° V IPS panel
Backlight Life	50,000 hours WLED life expectancy

Touch & Glass Parameters	
Touch Sensor	Projected Capacitive multi-touch
Cover Glass	MIL-STD-810G shock Mohs 7+ glass
Optical Lamination	LOCA resin or OCA film bond
Surface Coating	Anti-Reflective / Anti-Glare
Touch Control	Raindrop & heavy glove support

Environmental & Mechanical	
Protection Level	Full IP67 enclosure (IP68 optional)
Operating Temp	−40 to +75°C operating range
Storage Temp	−45 to +85°C storage range
Housing Material	Milled aircraft-grade aluminum casing
Mounting Styles	VESA 75/100, yoke, console mount

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Integration Connectivity

VIDEO **MIL-38999 Video Inputs**
Circular threaded watertight video ports carrying HDMI, VGA, or analog composite/SDI signals.

TOUCH **MIL-38999 USB Touch**
Watertight USB-HID touch interface designed to remain shielded from electromagnetic interference.

DC **MIL-38999 DC Power**
Circular connection for isolated DC input (18V-36V) with MIL-STD-1275D surge suppression filters.

VALVE **Pressure Relief Valve**
Autoflo breather membrane venting internal air pressure changes while blocking water entrance.

Tailor-Made Module Enhancements

- **Night Vision NVIS**
  Dual-mode backlighting compliant with MIL-STD-3009 NVIS Type I Class B specifications.
- **Anti-Reflective Coating**
  Vacuum-sputtered multi-layer AR treatments reducing surface reflections down to < 0.5%.
- **Sun Visor Shrouds**
  Integrated metal hoods to block direct overhead sun rays and spray washdown droplets.
- **Marine Salt Protection**
  Advanced board-level conformal coating to block corrosive salty sea-mist environment rust.
- **Military Bracket Yokes**
  Heavy-duty steel mounting yokes and desk stands built for vehicle cab integrations.
- **Custom EMI Filters**
  Additional noise suppressor boards to achieve compatibility in high-frequency radio rooms.

Applications

Armored Combat Vehicles | **Naval Bridge Consoles** | **Defense Command Shelters**
Military Helicopter HMIs | **Tactical Operations Centers** | **Ground Control Stations**