

MM156Ex

Mobile Military Monitor Series



MM156Ex is part of our Mobile Military Monitor Series that are IP rated to IP65 with the connectors or cable coming out the Sides, Top or Bottom. They can be VESA mounted, Bracket Side mounted or Optional Yoke mounted. The 15.6" panel is FHD (1920x1080) native resolution with an LED backlight and High Brightness available up to 1500 Nits. Optional NVIS enhancements are available for both NVIS White and NVIS Green. It's embedded controller has HDMI, DP, VGA or SDI I/O Ports Available to be brought Out. It's Lens comes standard with a 3mm thick, Chem Strength-ed, Anti Glare Cover Glass, with optional EMI 461 Military Enhancement, or PCAP touch. Perfect for Storm Case head mounting, or Direct Ship deck, or military transport applications.



Front ISO View

Features:

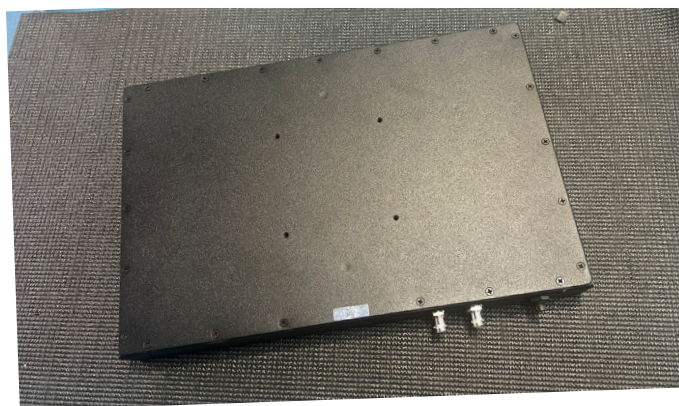
- Meets MIL-STD-810E/G Standard
- Military Grade Rugged 15.6" High Bright LCD (1500 Nits)
- Conformal Coated Electronics.
- All Aluminum Construction
- 50,000 MTBF w/LED Driver
- Wide Temp range -30°C to +85°C Operation and Storage
- HDMI, DP, VGA or SDI input options via Gland Ports or Mil-spec Connectors
- All Aluminum Chassis design
- NEMA4 / IP65 Operation and Storage
- Front OSD control buttons to optimize display
- Optical Bonding for Grade A Shock
- Vesa 100mm x 100mm, M4 Hole Pattern

Options:

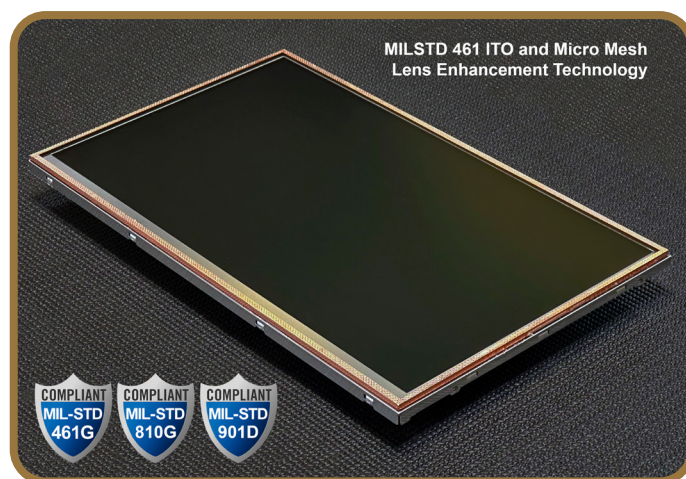
- Multiple Lens Enhancement available Including: NVIS White or Green Backlight
- 461G EMI Glass Enhancement
- Side L Bracket, or Side Yoke Brackets
- MIL PCAP and Resistive Touch Options



Power and Inlet View



Back Iso View



Specifications

Detailed Specifications are for the 15.6" Monitor
We can supply Detailed Specs other
Monitors upon Request



LCD Characteristics:

Screen Spec:	15.6" FHD, a-SI TFT LCD
Backlight Type:	LED
Resolution:	1920x1080
Contrast Ratio:	1000:1
Brightness (cd/m2):	1000 to 1500 Nits
View Angles (H/V):	89/89/89/89
Pixel Size (HxV) mm:	0.17925x17925 mm
Max. Color:	16.7M
MTBF (hrs):	50,000
Response Time (ms):	25
Lens Treatment:	Antiglare, Hard Coating (3H)
Lens Enhancment:	Optical Bonding
Touch:	Optional (Resistive or PCAP)
Color Gamet (NTSC):	72 to 76%

Standard Input Signals:

VGA:	DB15 Male (3' to 6' Cable)
HDMI:	Mono Pole HDMI (3' to 6' Cable)
Display Port:	Full Size or Mini DP Cable (3' to 6' Cable)
SDI:	BNC Connectors
USB:	USB 2.0 Type A (3' to 6' Cable)
	(MIL Spec Connector available on Request)

Power Specifications:

DC Power Input:	12VDC (Optional 9-36VDC)
Connector:	MIL Locking connector (2Pin Locking Standard)
Power Consumption:	~30 Watts

Mechanical and Environment:

Height:	~11"		
IP Protect:	IP54		
Mounting:	VESA Mount, Side L Bracket, or Yoke Mount		
Construction:	Aluminum Housing with black powder coating		
Operating Temperature:	-30°C ~ 85°C	Method 501.4 and 502.4	
Storing Temperature:	-30°C ~ 85°C	Method 501.4 and 502.4	
Operating Humidity:	5% - 95%, non -condensing		Method 507.4
Anti-Vibration:	5 - 500 Hz / 1 Grms PTP		Method 514.5
Anti-Shock:	15G / Peak (11 ms)		Method 516.5
Physical Dimension (WxHxD):	16" x 11" x 1.46" (in)		
Packing Dimension (WxHxD):	25" x 15" x 5" (in)		
Net Weight / Gross Weight:	(6.5Lbs / 8Lbs)		
Certification and Approvals:	UL / CE / FCC RoHs		
Altitude Test:	12,500/40,000ft(Operational/No-Operational)		

User Controls Interface:

Power ON / OFF via Front Button
Power Mode Status LED Indicator
OSD (On Screen Display) Buttons



Base Series

MM

Mobile Military

Display Size
& Enhancement

156Ex

156M1, 156M5,

Project Number

XXXXX

AB0001

Revision

XX

00

► Custom Options Available On All DITHD Models



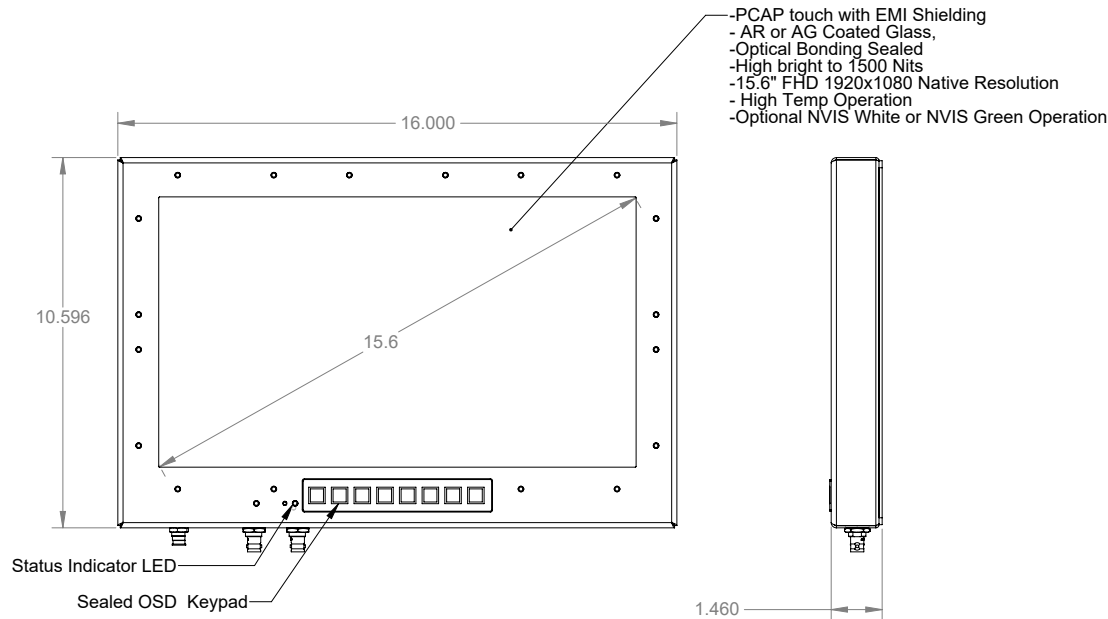
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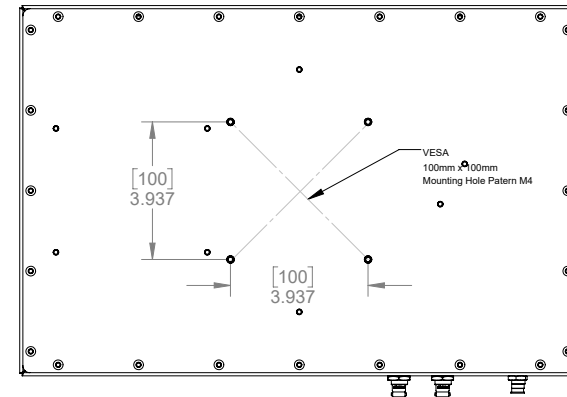
Mechanical Drawings

Samples of some of the Custom Projects we have done for our customers

Mechanical drawings and 3D Solid Models are available upon request. Contact your sales representative for details.



IP65 Unit, Not Tested to IP67 Yet

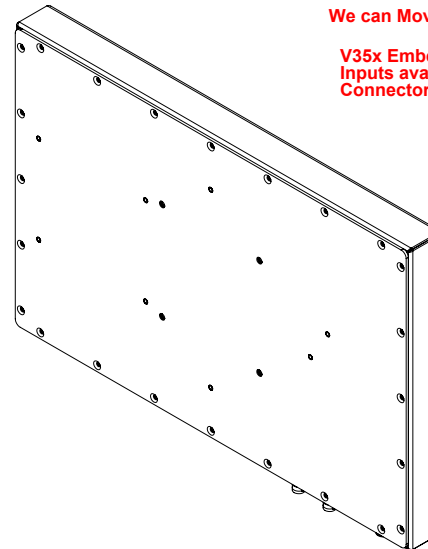
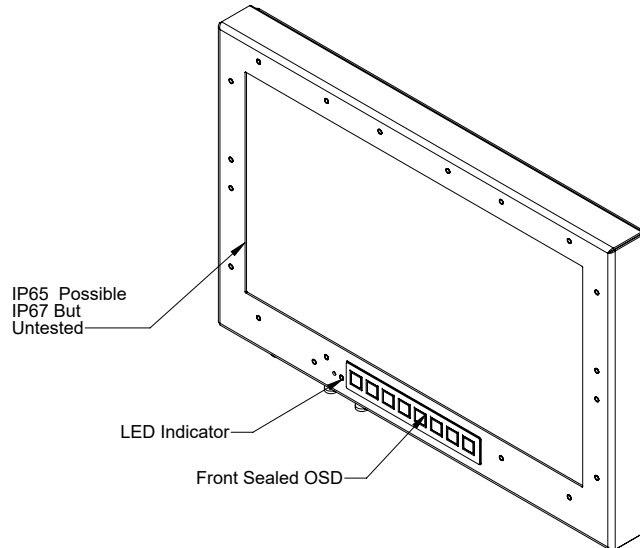


Shown with Optional BNC 3G-SDI In and Out

We can Move these Connectors to the Left or Right

V35x Embedded Controller: HDMI, DP, VGA, SDI Inputs available Via Watertight Glands or MILSPEC Connectors

2P Sealed Locking Connector Shown, Other Options Include Gland Cable Power Cord or MILSPEC Connector



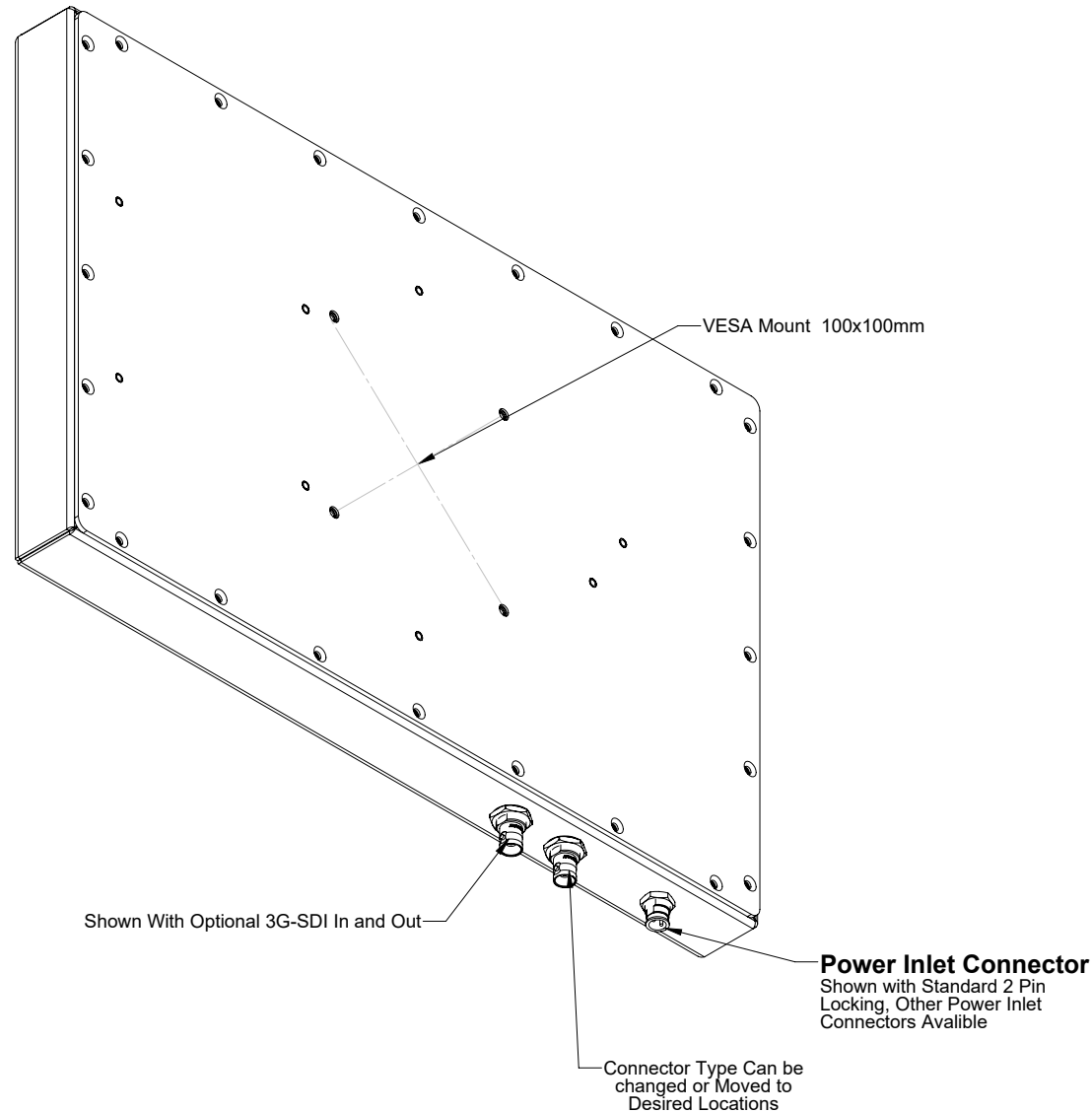
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MILITARY SPECIFICATIONS



MIL SPECIFICATIONS

Panel Can be DTM (DESIGNED TO MEET) the following MIL Standards. Full Mil Spec Requirements must be disclosed during the quoting process to pick the correct components and Enhancement Process to meet your MIL Spec Requirements.

AVAILABLE MIL STANDARD DESIGN TO MEET OPTIONS

Operational Temperature Range: MIL-STD-810F/G, -10C to +50C (*Method and Procedures TBD)

Storage Temperature: MIL-STD-810F/G, -30C to +60C (*Method and Procedures TBD)

Humidity: MIL-STD-810F/G, (*Method and Procedures TBD)

Altitude: MIL-STD-810F/G, (*Method and Procedures TBD)

Vibration: MIL-STD-810F/G, -167, or -516.2 (*Method and Procedures TBD)

Shock: MIL-STD-810F/G, -901E Grade B, or -901E Grade A (*Method and Procedures TBD)

EMI: Optional MIL-STD-461F/G CE102, RE101, RE102, CS101, CS114, CS116, RS101, and/or RS103

*MIL-STD, Methods, and Procedures are based on your required needs, contact one of our knowledgeable Sales Engineers to help to Spec in a unit to meet your required needs.

TERMS & CONDITIONS

DITHD only Guarantees our Units Will pass Mil-Spec Testing when Mil-Spec Testing is purchased through DITHD and its partnering 3rd party independent Labs.

