



MD238Mx

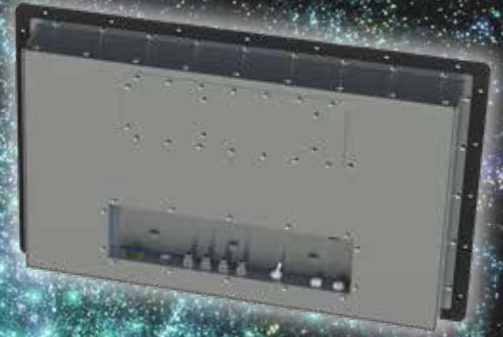
Military Panel Mount

1357 Rocky Point Dr., Oceanside CA 92056
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MD238M1 Shown

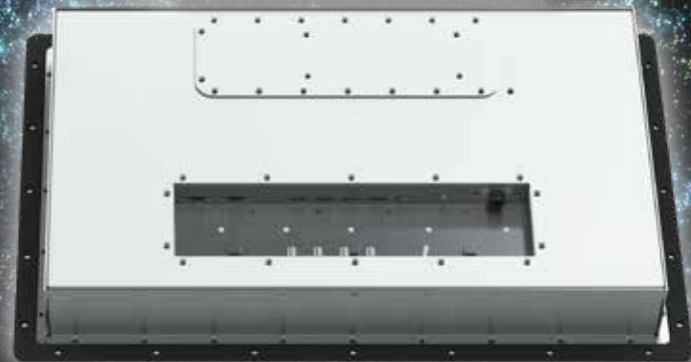


IP67 Front



Rugged Commercial Connectors Shown

PCRS™ Positive Connector Retention System Employed



MD238Mx

Military Panel Mount

Our Military Monitor MD238Mx Series was designed from the ground up to meet the rugged environmental requirements. It can be built with an IP67 Front Face with IP53 Back for general rugged use or full IP67 with Mil Spec Circular Connectors for sealed applications. It comes standard with an EMI ITO Lens. It has optional Optical Bonding and also High Bright Backlit LCD Monitor, With Optional Heated Lens, and NVIS Backlight system. It was Design To Meet (DTM) many MIL Spec standards off the shelf but if you have a specific standard you need met, We can customize it to any level. It is Built from 5052H32 and 6061T6 Aluminum that is Laser Cut and Milled to a precise standard. The internal Components Can be Conformally Coated for an extra level of protection. Internal Cabling is Low Smoke Zero Halogen Teflon Cabling. Its Specifically Design for Panel Mount Applications with Milled Aluminum front face that rises only a 1/2" off its mounting surface. Exact-ing Precision has gone into every design feature of this unit to make it one of the best monitors in the industry, and worthy of becoming a true Military Monitor (MDseries).

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FEATURES

- A** Welded & Milled Aluminum Housing
- B** Water Tight OSD Menu Membrane Switches
- C** ITO Front Lens
*Optional Lens Enhancements Available
- D** Passive Cooled
**IP67 Optional Sealed Back Available
- E** Conformally Coated Electronics
* Multiple Coating Options to Choose From
- F** Multiple Controller Cards to Choose From Giving Flexibility to your I/O Needs.
- G** VESA Hole Positions for Expansion Modules
- H** Power Supply Plate:
*Field Serviceable Power Supply
- I** Panel Mount Hole Pattern:
*Can Be Customized to your application,
- J** IP67 Mil Spec I/O Plate:
*Customizable Inputs

Example Of Mil Spec Connector Option 2 Shown

Standard Equipment

- Rugged All Aluminum Construction
- May include Rear VESA Pattern for add-on equipment such as Fiber Channel
- Laminated, 461 EMI, ITO Glass Enhancement
- IP67 Front Face Design
- 6061 T6 Milled Aluminum Front Face

OPTIONS

- Multiple Lens Enhancement available Including: Heated Glass, NVIS Backlight
- High Bright Daylight Viewable option
- Optional conformal Coating
- Optional Optical Bonding for Grade A Shock
- PCAP Touch (May Effect EMI)

Video Inputs Available*

- | | | |
|--------|-------------|----------------|
| • VGA | • YPbPr | • SDI |
| • DVI | • Composite | • Display Port |
| • HDMI | • S-Video | |

*Not all ports are available on all AD cards.
Check I/O for each Video Controller Offered

LCD MODULES

238M1 UHD 3840x2160 (Max Res)

- 23.8" LED Backlit LCD
- ITO EMI Lens Enhancement
- Viewing Angles: 89L/89R/89U/89D
- Contrast Ratio: 1200:1
- Brightness: 500 NITS
- Response Time: 14ms
- Color: 1.08B, 10 Bit
- Color Gamut: 98% NTSC
- Surface Finish: AR/AG Coated Laminated Optically Bonded Lens

238M2 UHD 3840x2160 (Max Res)

- 23.8" LED Backlit LCD
- ITO EMI Lens Enhancement
- Viewing Angles: 89L/89R/89U/89D
- Contrast Ratio: 1200:1
- Brightness: ~1000 NITS High Bright
- Response Time: 14ms
- Color: 1.08B, 10 Bit
- Color Gamut: 98% NTSC
- Surface Finish: AR/AG Coated Laminated Optically Bonded Lens

238M3 UHD 3840x2160 (Max Res)

- 23.8" LED Enhanced Backlit LCD
- ITO EMI Lens Enhancement
- Dual Backlight NVIS and Daylight
- Viewing Angles: 89L/89R/89U/89D
- Contrast Ratio: 1000:1
- Daylight Brightness: up to 1000 NITS option
- NVIS: B Mode
- Response Time: 14ms
- Color: 1.08B, 10 bit
- Color Gamut: TBD NTSC
- Surface Finish: AR/AG Coated Laminated Optically Bonded Lens

*Additional LCD Sizes and Options Available

VIDEO CONTROLLERS

- **V38x High End 4K Controller (Production)**
Max Resolution: 4096 x 2160 60Hz
Input Options Available: HDMI 2.0 x1, HDMI 1.4 x3, Display Port 1.2. RS-232, OSD, For command and Control, and IR Remote. Integrated Multi View (PIP, PBP, Quad View).
• Optional 3G or 6G SDI Interface can be Integrated
- **V36x Mid Grade 4K Controller (New)**
Max Resolution: 4096x2160 60Hz
Input Options Available: HDMI 2.0 x2, Display Port 1.2 x1, RS-232 and OSD for Command and Control. IR Remote

SPECIFICATIONS

- Dimensions: See Mechanical Drawing
- Weight: ~35 Lbs
- Power Consumption: ~110 Watts
- Shipping Weight: TBD
- Shipping Dimensions: TBD

Values are approximate and vary based on configuration



Base Series

MD

Display Size
& Enhancement

XX

Project Number

XXXXX

Revision

XX

Example:

MD

238M1

AB0001

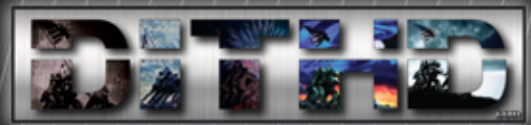
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► Modified COTS (MCOTS) Options Available On All DITHD Models

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MILITARY SPECIFICATIONS



MIL SPECIFICATIONS

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

TERMS & CONDITIONS

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

Available Mil Standard DTM 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)

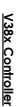
Shock: MIL-STD-810F/G, -901E Grade B, or -901E Grade A (*Method and Procedures TBD)

EMI: 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 knowledgable Sales Engineers to help Spec in a unit to meet your required needs.



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



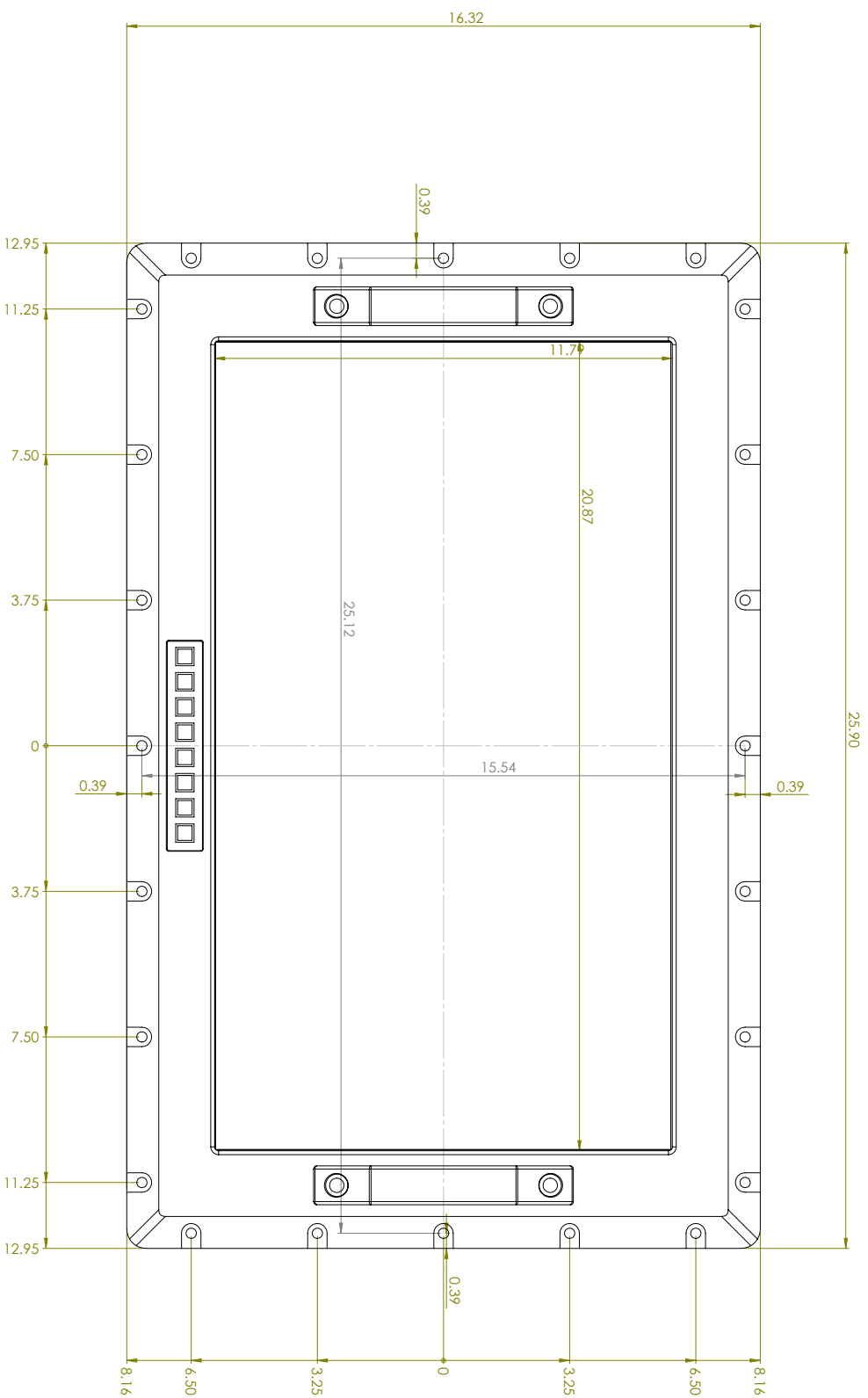
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