

MM550Mx

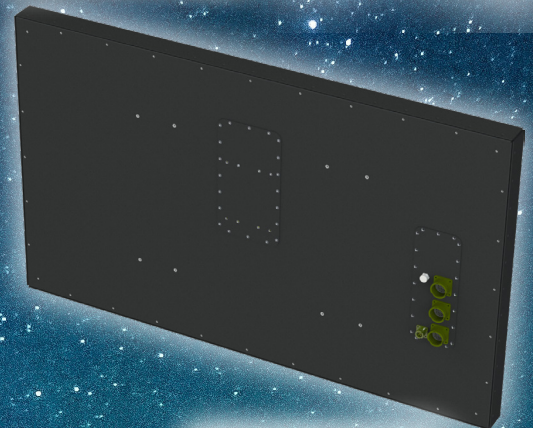
Military Monitor Flex Mount



IP67 Front



IP53 Back



IP67 Back

MM550Mx

Military Monitor Flex Mount

Our Military Monitor was designed from the ground up to meet the rugged environmental requirements of Mil Spec certification. It can be built with an IP67 Front Face, with IP53 back, with Commercial Connectors, for general rugged use or full IP67 with Mil Spec Connectors for sealed applications. It come standard with an ITO optically bonded lens. It has an optional high-bright backlit LCD Display, or Heated Lens. It was design to meet 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 are conformally coated and each connection is protected with dielectric grease to prevent corrosion. Its Flex Mount system includes VESA, Panel Mount and Flush Mounting options. Exacting 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 (MM).

SERIES MM550Mx

Military Monitor Flex Mount



FEATURES

- A** Welded & Milled Aluminum Housing
- B** Watertight OSD Menu Membrane Switches
- C** Optically Bonded Front Lens
*Optional Lens Enhancements Available
- D** Passive Air Cooling
**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
- H** Power SupplyPlate Design:
*Gives You Field Serviceable for Power Supply
- I** Flex Mount Hole Pattern:
Holes around Perimeter every 5 inches
*Fits Direct Panel Mount,
***Flush Mount Cradle
- J** IP67 Mil Spec I/O Plate:
*Customizable Inputs

WHY CHOOSE

- Rugged All Aluminum Construction
- High Bright Daylight Viewable option
- NVIS Backlight System Available
- Optical Bonded Cover Glass
- IP67 Design Options
- Flex Mount Design Technology

OPTIONS

- Multiple Lens Enhancement available Including: ITO Lens, Heated Glass,
- Optional Flex Mount Kits Available
- Choice of Conformal Coating Techniques
- ITO or Mesh Lens Enhancement

Video Inputs Available*

- VGA
- YPbPr
- 3G-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

550M1 UHD 3840x2160 (Max Res)

- 55" LED Backlit LCD
- ITO EMI Lens Enhancement
- Viewing Angles: 89L/89R/89U/89D
- Contrast Ratio: 1100:1
- Brightness: 500 NITS
- Response Time: 8ms
- Surface Finish: AR Coated 3mm Optically Bonded Lens
- Color: 1.07B 8 bit
- Operating Temp: -10 ~ 50 °C
- Storage Temp: -40 ~ 75 °C

550M2 UHD 3840x2160 (Max Res)

- 55" LED Backlit LCD
- ITO EMI Lens Enhancement
- Viewing Angles: 89L/89R/89U/89D
- Contrast Ratio: 1100:1
- Brightness: 1000 NITS (High Bright)
- Response Time: 8ms
- Surface Finish: AR Coated 3mm Optically Bonded Lens
- Color: 1.07B 8 bit
- Operating Temp: -10 ~ 50 °C
- Storage Temp: -40 ~ 75 °C

*Additional LCD Options Available

VIDEO CONTROLLERS

- **V38x High End 4K Controller (Production)**
Max Resolution: 4096 x 2160 60Hz
Input Options Available: HDMI 2.0 x1, HDMI1.4 x3, Display Port 1.2. RS-232, OSD, For comand and Control, and IR Remote. Integrated Multi View (PIP, PBP, Quad View).
• Optional 12G SDI Interface can be Integrated
- **V36x Mid Grade 4K Controller (New)**
Max Resolution: 4096x2160 60Hz
Input Options Available: HDMI 2.0, Display Port 1.2, RS-232 for Comand and Control.



SERIES: MM DISPLAY: XX Custom PN: XXXXX Revision: XX
550M1, 550M2

SPECIFICATIONS

- Dimensions: TBD
- Weight: TBD
- Power Consumption: TBD
- Shipping Weight: TBD
- Sipping Dimensions: TBD

Values are approximate and vary based on configuration

► Custom Options Available On All DIT Models

DIT: Display Integration Technologies | The Worlds Most Configurable Monitors
1357 Rocky Point Drive, Oceanside CA 92056 | 760.599.9225 | www.DITHD.com



MILITARY SPECIFICATIONS



MIL SPECIFICATIONS

Panel is DTM (DESIGNED TO MEET) the following Mil Standards. Mil Spec must be disclosed during the quoting process to pick the components to meet that spec.

TERMS & CONDITIONS

*Unit will meet Mil-Spec testing when Mil-Spec testing is purchased through 2s2 / DITHD.

Mil Standard Specifications

Operational Temperature Range: MIL-STD-810F/G, Method 501.5, Procedures I/II; -10C to +50C

Storage: MIL-STD-810F/G, Method 501.5, Procedures I/II; -40C to +75C

Humidity: MIL-STD-810F/G, Method 507.4; 48 hour, 95% RH 40-65

Altitude: MIL-STD-810F/G, Method 500.4; 12,500ft operation with 40,000ft transport

Vibration: MIL-STD-810F/G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hzz, 60min/axi

Vibration: MIL-STD-167-1A, Type 1

Shock: MIL-STD-810F/G, Method 516.6, Procedures I/V; 20g, 11msec functional shock; 40g 11msec crash hazard shock

Shock: MIL-STD-901D, Grade A, Class 1, Type A

EMI: MIL-STD-461F/G CE102 & RE102;





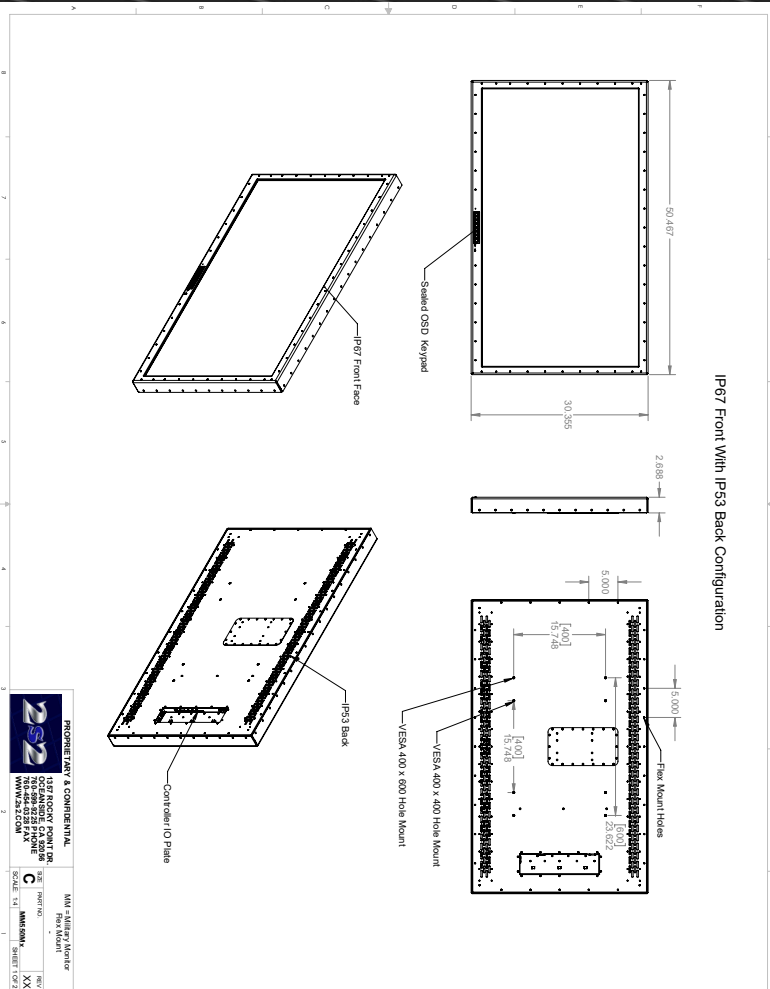
MMxx Flex Mount Large Sized Panels



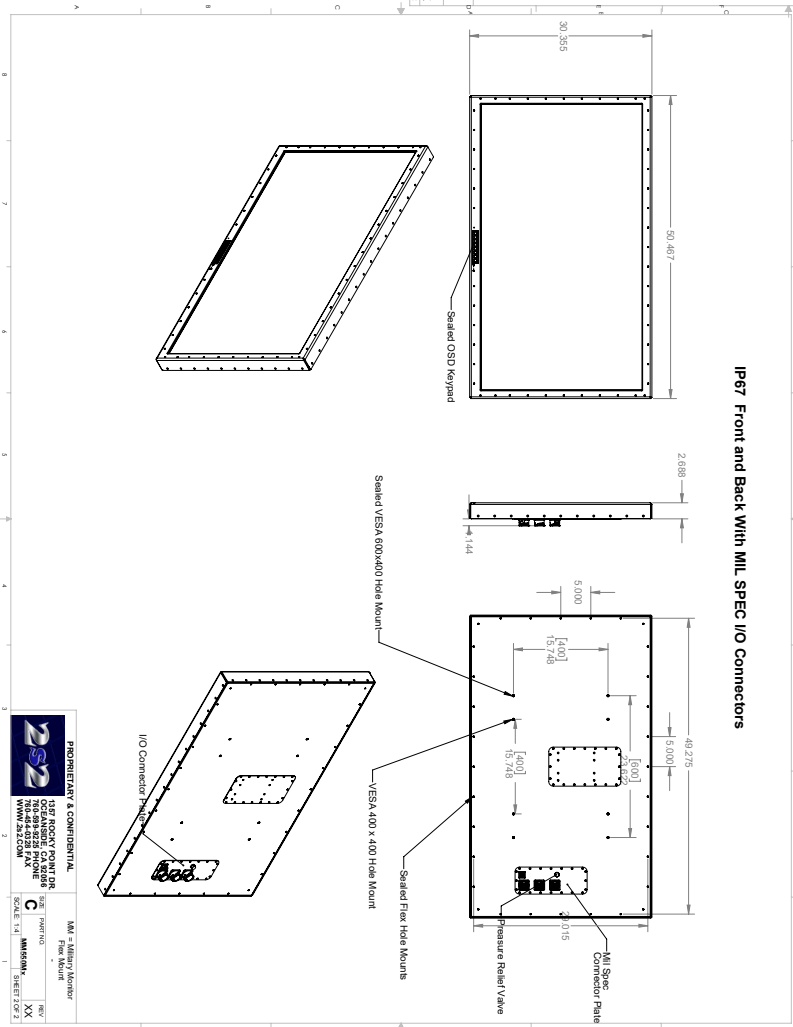
Mechanical drawings and 3D Solid Models are available upon request. Contact your sales representative for details.

Mechanical Drawings

IP67 Front With IP53 Back Configuration



IP67 Front and Back With MIL SPEC I/O Connectors



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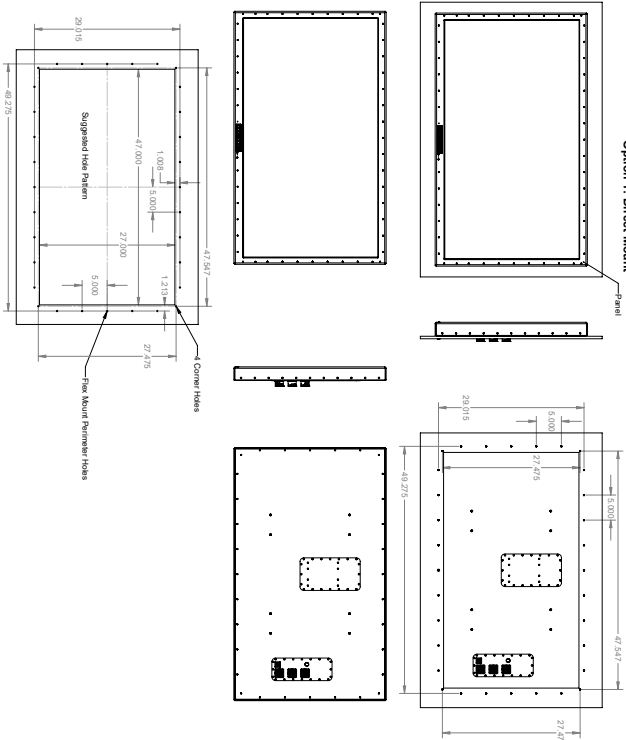
Mechanical Drawings

Flex Mount Options

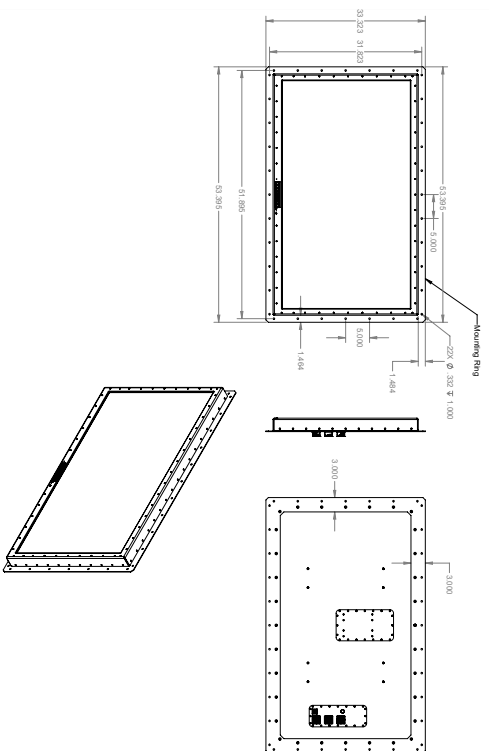


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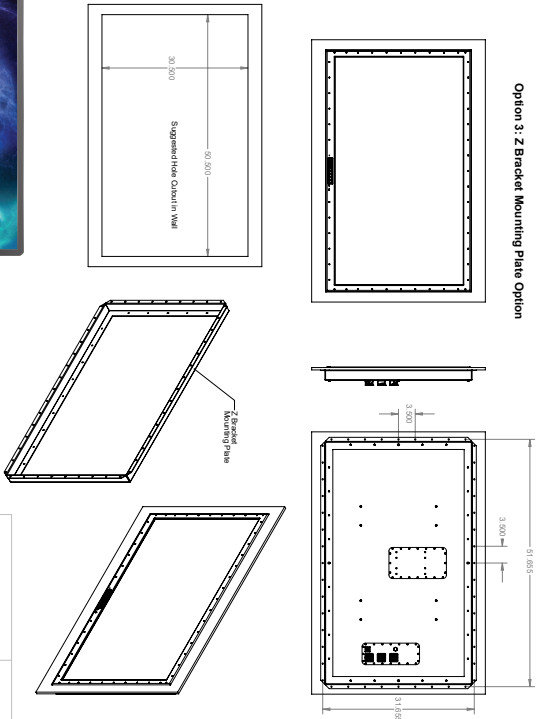
Option 1: Direct Mount



Option 2: External Ring Mounting Option

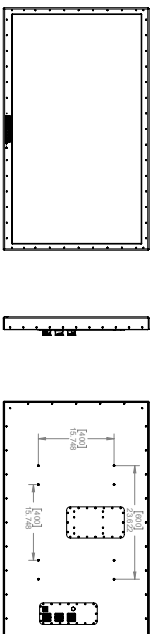


Option 3: Z Bracket Mounting Plate Option



Option 3: VESA Mount

VESA 400 x 400 Mounting Holes
VESA 600 x 400 Mounting Holes



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