

Contact us for information on pricing or datasheets.

WELCOME

Born in the IT and commercial broadcasting space, DITHD quickly expanded into rugged military displays and solutions. Today, DITHD has built over 20,000 units over 25 years, for military applications all over the world.

We believe the value of a company is determined by its utility. At DITHD we don't simply build rugged display products, we build solutions.

If you have a need (demand?), we have a solution.

Benjamin G. Chapman

Benjamin G. Chapman | CEO | DITHD

Product Catalog 2023

CONTENT



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Capabilities

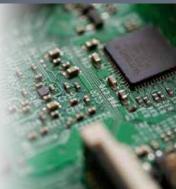
Extensive company history in rugged display integrations for Military and other environmentally-demanding industries.



6-7

MILSPEC

DITHD products are designed to meet or exceed environmental factors as outlined.



8-6

Enhancements

Overview of hardware enhancement options available for your needs.



10-

Products

MR Series, MP Series, MD Series, MU Series, MM Series, MT Series

We are happy to provide customized solutions. If you do not see the product for your specific needs, feel free to contact sales@dithd.com to discuss your exact requirements.

Capabilities

DITHD has been designing, manufacturing, and building rugged monitor solutions from the ground up, for over 25 years, all in the United States

With a streamlined manufacturing process and 3D solid modeling, DITHD is well-positioned to provide rapid prototyping, short run, high mix, and low volume as well as full-scale production.

Our products are designed to meet MIL SPEC requirements, and we specialize in MCOTS solutions for our clients.

























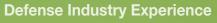












DITHD has been providing service to some of the largest players in the military contracting industry.

Our products are designed to meet MIL-SPEC requirements.

















MILSPEC

Military Standards and Specifications for Environmental Conditions

Military Standard

Panels are DTM (Designed to Meet) the following Mil Standards. Mil Spec must be disclosed during the quoting process to pick the adequate components.

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

Some Available Specifications

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

Storage: MIL-STD-810F/G, Method and Procedures TBD; Procedures I/II; -20°C to +75°C

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

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

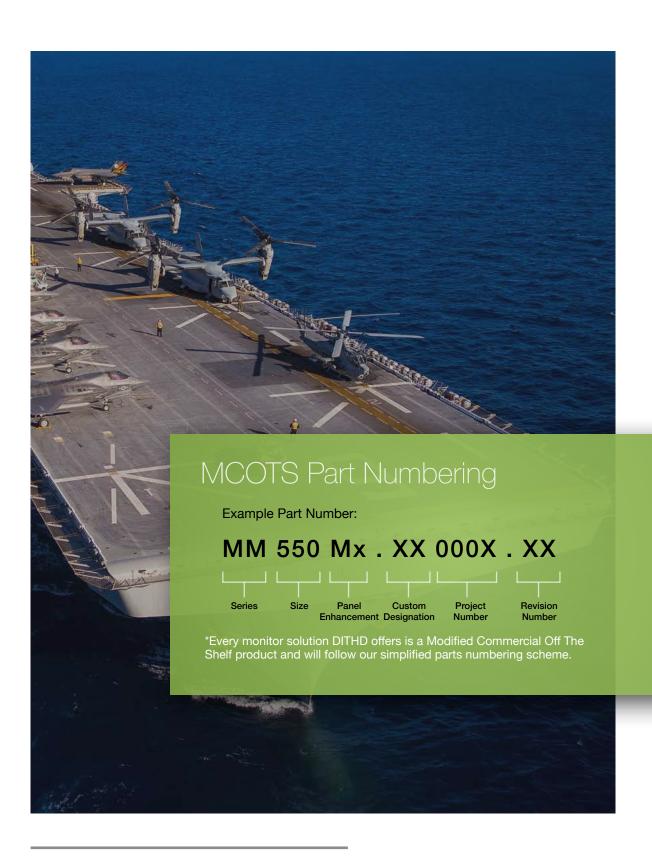
Vibration: MIL-STD-810F/G, MIL-STD-167, MIL-STD-516.2 Method and Procedures TBD; 4.43 GRMS, 5-20000Hzz, 60min/axi

Shock: MIL-STD-810F/G, MIL-STD-901E, 20g, 11msec functional shock; Method and Procedures TBD; 40g 11msec crash hazard shock

EMI: TBD, MIL-STD-461

DISCLOSURE: These are some of the MIL Standards we have built to meet for other customers. Your specific requirements must be disclosed for us to properly quote and build to those standards.





Since your product is unique, we require full disclosure in writing of your MILSPEC requirements prior to the quoting process.

Enhancements



Conformal Coating

Conformal Coating is a thin polymeric film which conforms to the contours of the printed circuit board.

This coating protects the board's components against moisture, dust, chemicals, and temperature extremes. A number of different materials can be used, each with its own unique characteristics and applications.

High Bright Displays

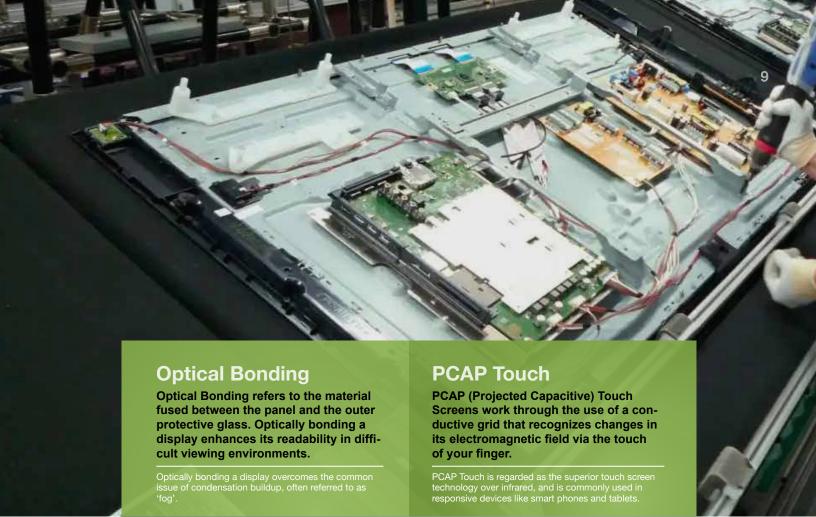
Regular displays do not have the brightness to compete against harsh glare from the sun. When viewed outside, regular displays are dim and dark.

Our High Bright enhancement takes monitors over 1000 NITS



M0- M6

Our military LCDs have multiple enhancement options available. These enhancement options are numbered M0 to M6. Each M offers a different enhancement, such as PCAP, NVIS, etc.





LCD Display

We have LCD displays ranging in all sizes from compact 5.6" displays, to premium, 75" 8K displays with high refresh rates. When part numbering, a 17.3" wide LCD display is represented as '173W'. A 23.8" 4K UHD display would be represented as 238U. For a full list of our available displays, please see our LCD Matrix Guide.



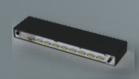
AD Controller

Each board features particular input options. These include (but not limited to) HDMI 1.0, 2.0, 2.1; DisplayPort 1.2, 1.4; 3G & 12G SDI, DVI-D; fiber optic channel, and Legacy VGA, S-Video, and C-Video. Some AD controller options can support 60, 120, & 240 Hz panels.



Keyboard & Pointing Devices

We offer mil-standard 461 keyboards as well as units with multiple options of keyboard and mouse configurations. Some are made from corrosion-resistant materials, designed rugged, and able to meet IP67. Other accessories mouses, joysticks, and more.



KVM Switch Back

We offer multiple enhanced KVM backs with four varieties of options: DVI, VGA, HDMI, DisplayPort, KVM over IP, and more.

We also offer multi-headed KVMs for our Hydra Series Multihead Rack Drawers.

We can also support your Cac Cards, NIAP, & Tempest Requirements. (Contact Sales Rep)



MR Series

- Militarized Clamshell and Lay Falt RD1U, 2U, 3U and 4U Series
- · Starting at 1U (1.75") unit height available
- · Screen sizes in 17Mx, 173Mx, 19Mx
- · Rack and transit case ready
- · Integrated KVM back available
- Built-in Mil-Spec Friction Slide Rails
- Multi-Display Hydra Series available on 3U and 4U models
- Rugged, all-aluminium construction
- Conformally Coated Electronics
- Optically Bonded Lens





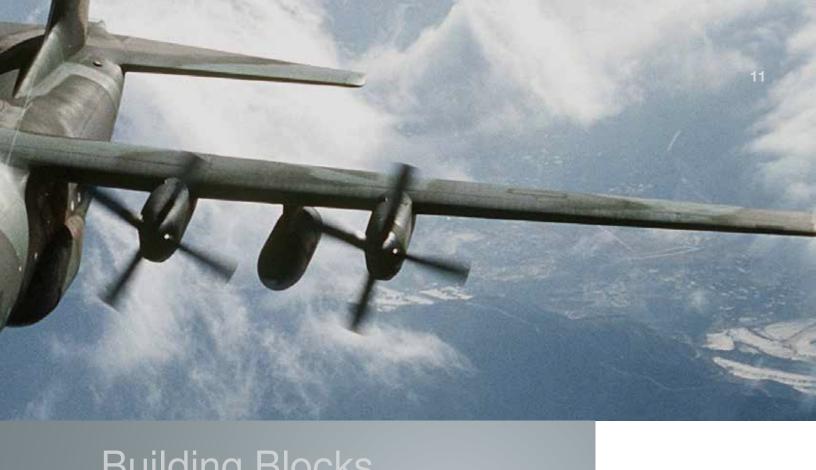


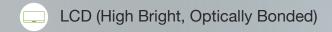




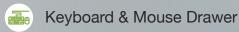


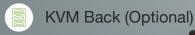
Optical





AD Controller Card (Conformally Coated)













LCD (High Bright, Optically Bonded)



AD Controller Card (Conformally Coated)



Keyboard & Mouse Drawer



KVM Back







MP Series

- · Militarized PDD1, PDD2, and PDD3 Series
- 17.3", 19", and 20.1". 21.5", and 23.8" Screen Sizes
- · Very thin 1U Height model available
- Rugged, All-Aluminium Construction
- Designed to meet Environmental MILSPEC Specifications
- Optically Bonded AR or AG Lens ITO 461
- · Conformally Coated Electronics
- Multi-Display Hydra Series available on 3U and 4U models.







MD Series

- · Military-Grade Direct Panel mount series
- 10.4", 15", 15.6", 17", 17.3", 19", 21.5", 23.8", 27", 32", 43", and 55", 65", and 75" Screen Sizes
- Direct mount solution
- · Rugged, all-aluminium Construction, Milled Front Face
- Designed to meet 901D Shock and 167 Vibration, 810 Military Environmental Specifications, 461 EMI.
- · Optically enhanced AR or AG Lens
- Conformally Coated Electronics
- · Up to 4K panels











Building Blocks

LCD (High Bright, Optically Bonded)



AD Controller Card (Conformally Coated)





16 | MD Series (Continued)







4K Avalible Sizes









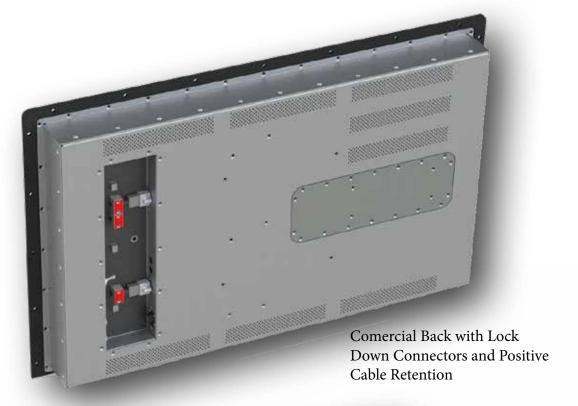


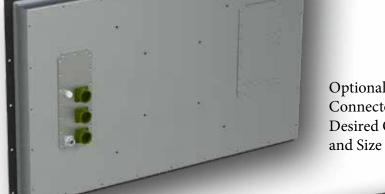












Optional Mil Spec Connectors and your Desired Orientation and Size









Take Your Monitor Anywhere.

Rugged, Battery-Capable Monitor Solutions for Any Environment!

The MU Series represents our LCD Monitors housed in rugged, portable cases.

Our MU (Underwater Kinetics and Pelican Cases) consists of an LCD display housed in our Storm Case, and ready for a very wide range of customizations. These options range from phones, to antennas, to computer systems, and anything else you desire to be integrated into this splash-proof Storm Case.

The MU series is available in several different case and monitor sizes, and features Single, Dual or Triple screen configurations. Whatever the component, it can be integrated into our resilient MU!

















MU Series

Features:

- Splash-Proof Underwater Kinetics and Pelican Storm Case Design.
- Wide Range of Controller Cards, Enhancments, Standard Bulding Blocks and Custom Featurs Features to Chose From.
- · FHD Monitor Screen Sizes: 156W, 173W, 215W
- DITHD's Most Customizable Product Line
- MU HYDRA is Available in Double or Triple Screen Configurations
- Available 4K Panels, 173U and 238U
- High Bright, Optical Bonding and PCAP Touch
 Options avalible















LCD (High Bright, Optically Bonded)



AD Controller Card (Conformally Coated)

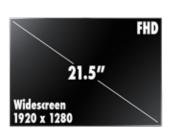
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FHD









4K UHD





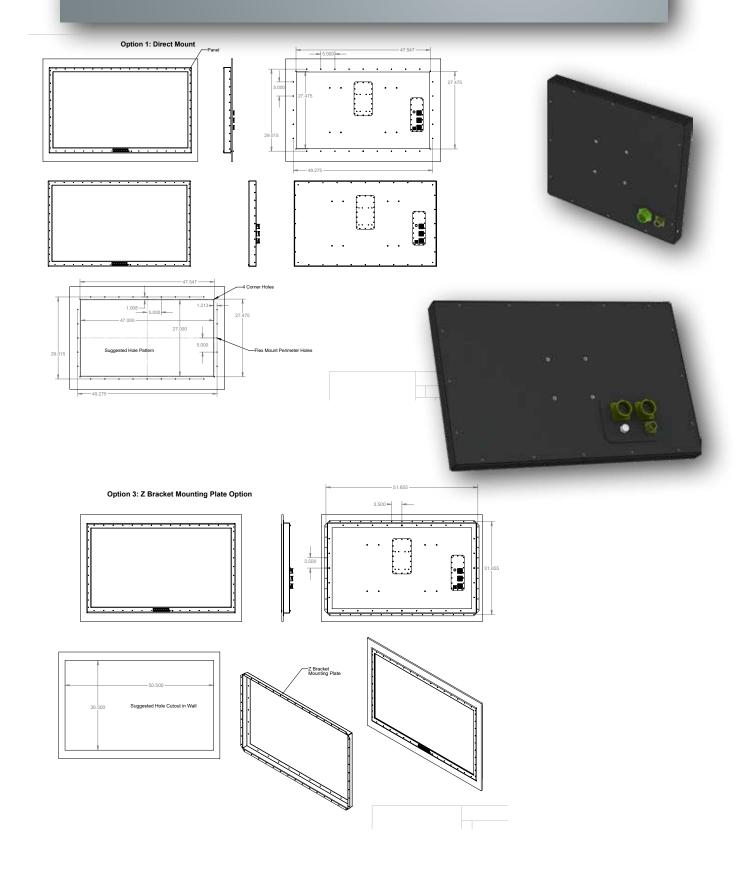








FLEX Mounting System





MT Series

- Flex Mount System includes VESA Panel Mount and Flush Mounting Options
- PCAP Touch enabled
- Front Bezel Can be fully sealed to IP66
- · Optically Bonded lens
- Optional High Bright, PCAP Touch, ITO, Heated Lens, and NVIS Night Vision
- Available in 23.8",32", 43", 55"
- Milled Aluminium design
- Conformally Coated Electronics for Corrosion Prevention



Military

Monitor

Optical Bonding

Conformal

Coating





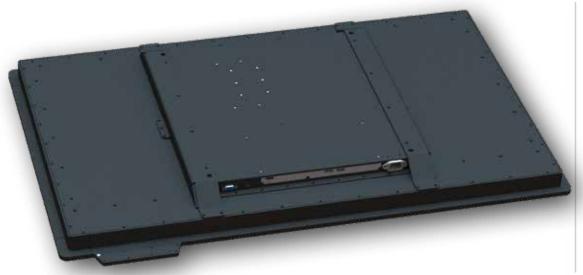




LCD (High Bright, Optically Bonded)



AD Controller Card (Conformally Coated)













Cage Code: 787R6
DUNS: 078555371

