

# 2023 DITHD CATALOG

Transit Case, Rack, and Rugged  
Monitor Solutions



**THE WORLD'S MOST CONFIGURABLE MONITORS**



# Building On Principle.

DITHD's 'Building Blocks' Design Philosophy Promotes Easy Customizations.

All of our units are designed with customization in mind.

No matter the unit, expect a variety of screen sizes and AD Controller options, with available enhancements such as High Brightness, Optically Bonded Lens, Conformally Coated Electronics, and PCAP Touch.

Certain units house keyboard drawers and KVM back options. The keyboard drawers are also customizable with different front faces, keyboards, and mice.



## Our Building Blocks



### LCD OPTIONS

We have LCD displays ranging in all sizes from compact 10.1" displays, to premium, 23.8" 4K displays, and everything in between. When part numbering, a 17.3" wide LCD display is represented as '173W'. A 23.8" 4K LCD display would be represented as 238U. For a full list of our available displays, please see our [LCD Matrix Guide](#). Please note that we specialize in customizing display solutions, so do not hesitate to inquire about screen options or sizes which are not currently listed in our guide.



### AD Controller

We offer a variety of Analog-Digital Controller Boards. The board you choose will depend on the specific features and inputs you require for your application. Each board features particular input options, varying from HDMI to S-Video to 6G-SDI. Boards vary in price, with some providing simple display features, while others offer sophisticated broadcasting tools, like Wave Form Monitor and Vector Scope. For a detailed look at our AD Controller Board offerings, please see our [AD Controller Card Matrix](#).

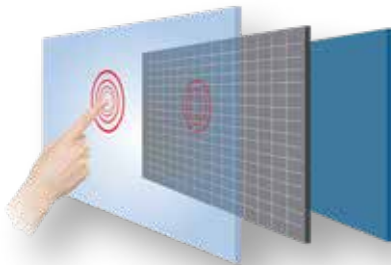
### Optical Bonding

Optical Bonding refers to the material fused between the panel and the outer protective glass. Optically bonding a display enhances its readability in difficult viewing environments. When a normal display is used in these difficult settings, some factors affect its readability. The most common factor is "fog", or condensation, which forms on the inner surface of display's vandal shield. Another common factor is the reflection of sunlight, which causes a mirror-image on the display. Both phenomena can be solved by optically bonding your display.





## PCAP Touch



PCAP (Projected Capacitive) Touch Screens work through the use of a conductive grid that recognizes changes in its electromagnetic field via the touch of your finger. PCAP is regarded as the superior touch screen technology. Unlike Infrared technologies, which have a very limited array, PCAP technology is significantly more accurate, and is the preferred technology for smart phones and tablets. Virtually every monitor we offer at DITHD can be upgraded to PCAP touch.

## High Brightness



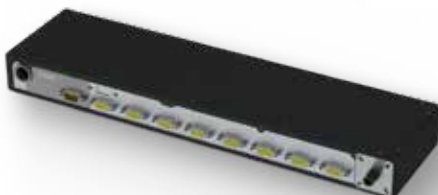
Screen Brightness is an important consideration for certain viewing environments, such as an outdoor display solution. Standard panels are designed for indoor-viewing, and are built to operate effectively at a much lower brightness of about 250 to 400 NITS. (NITS are a measurement of luminance, or the intensity of visible light.) However, when a standard-brightness monitor is viewed outdoors, or in other bright environments, the visibility drops drastically. This is due to the lower brightness of the display being unable to compete with brighter light sources. The solution is a simple upgrade to a High Bright version of our existing panel sizes, which often increase panel brightness to over 1000 NITS.

## Keyboard Options



Units have multiple available options of keyboard and mouse configurations. Some are made from corrosion-resistant materials, others offer miniature mouses, joysticks, and other accessories which integrate into keyboard drawers. These keyboard solutions range in price and offer differing levels of build material quality, key count, and additional features.

## KVM Switch Backs



A KVM switch allows a user to control multiple computers from one or more sets of keyboards, video monitors, and mice.

We offer KVM backs for a variety of input options, such as HDMI, DisplayPort, DVI, and more.

KVM Backs are available on specified DITHD units.



# Our Best Seller.

Manage your data systems with a sleek, sturdy, and reliable Clamshell Monitor.

The DITHD Clamshell Series is our most popular rackmount series with over 15,000 in Service.

Designed for Rack and Rugged, Mobile Transit Case environments, it fits a very thin 1U rack height Space and Come in a Variety of different depths. It is Highly Customizable with over 30,000 Different Combinations. We have Multiple Keyboard and Pointing Devices, and Integrated KVM Switch Options and Monitor Sizes and Resolutions to Chose From. Let one of sales engineers Put a solution together for you that meets your exact needs.

## RD1U-CAT Clamshell Series Rugged Transit



RD1U-CAT17



RD1U-CAT20



RD1U-CAT24

### Features:

- Very Thin 1U (1.75") height
- Available in 17", 20", & 24", 26" Depths
- Highly Customizable
- 19" Rack and Transit Case Ready
- Built-in Mil-Spec Friction Slide Rails
- Rugged, all-aluminium construction
- Telescoping Rear Mounting Arms fit almost any rack or Transit case
- Various Front Face Options
- Multiple Controller Card Options wipth Multiple I/O Options Like HDMI, DP, VGA, DVI, SDI and More
- Multiple Integrated KVM Switch Options
- Multiple Screen Sizes and Resolutions to Choose From
- High Bright and Optical Bonding, Touch and Other Lens Enhancements available
- Multiple Keyboard and Pointing Devices to Chose From



Monitor



Video In



VGA

DVI

3G SDI

12G SDI



Keybo



Legacy Ports such as C-Video, and YPbPr and available on Request



## Case and Rack Drawers 1U Height.



RD1U-CRT26

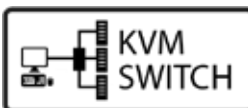
RD1U-CLT26

Available But No Shown

Keyboard Mouse



These are Just Some of the Popular 1U Keyboard Options



VGA

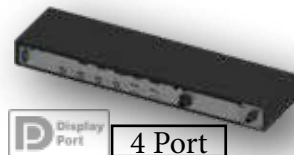
4, 8, 16 Port



DVI

4, 8 Port

These are Just Some of the Popular 1U KVM Switch Options



DisplayPort

4 Port



HDMI

4, 8 Port



KVMover IP 8, 16, 32 Port

VGA DVI DisplayPort HDMI

KVM OVER IP CAN HANDLE ALL THESE VIDEO INPUTS

Standard Features Included



Integrated Cable Guide System



Integrated MILSPEC Friction Slides



Milled Aluminum Rear Arms  
\*Transit Case Option



# Economize Your Space.

Free up cramped work areas with our low-profile Layflat Series.

The RD1U F-Series lays back flat in the drawer when in the stowed position. Because the keyboard is positioned in front of the LCD, it takes very little space when deployed. These are sometimes referred to as "Stealth Drawers".

This makes the Layflat series an excellent choice for racks with limited working space.

# RD1U-F Layflat Series

## Rugged Transit Case and Rack Drawers 1U High

### Features:

- "Stealth Rack" Design offers more working room when unit is deployed.
- Rack Depth 27" with No KVM
- Rack Depth 32" KVM Switches
- Stealth Keyboard and Pointer Options.
- Built-in MIL spec Friction Slide Rails
- Adjustable Monitor Hinge
- Telescoping Rear Mounting Arms
- Integrated Cable Management
- Limited KVM Switch Selection



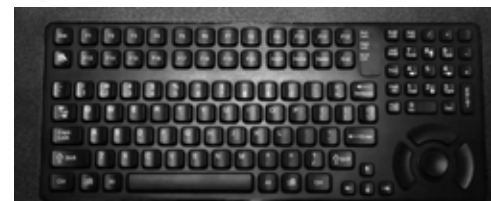
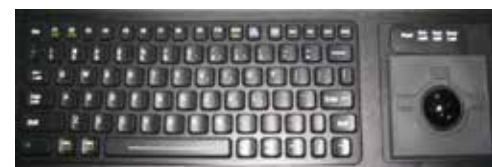
RD1U-F27



Monitor



Keyboard



Mouse

es  
eight.



RD1U-F32



Video In

DVI

VGA

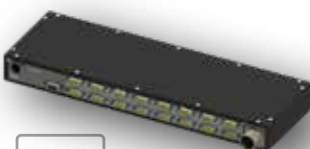


KVM SWITCH

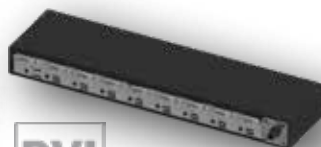
HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

Display Port

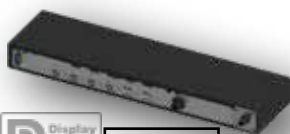
3G SDI



VGA 4, 8, 16 Port



DVI 4, 8 Port



Display Port 4 Port



HDMI™ 4, 8 Port

# Find the Right Angle.

Our Multi-Directional Pivoting Displays will give you screen visibility from any angle.

The PDD1 series has the unique ability to pop up from a layflat position and pivot on its center axis. The PDD2 series has a range of motion from 0 (layflat) to 110 degrees.

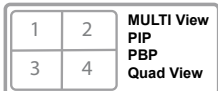
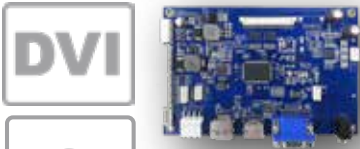
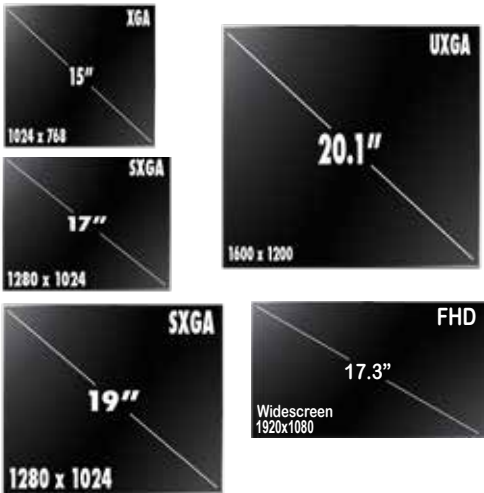
This series also offers an undermount position allowing you to pull down the monitor from its stowed position. This is an excellent solution for those needing a display positioned very high in a rack, or otherwise spatially-limited.

## PDD Pivot Display Series

### Rack and Transit Case 1U Monitor Only

#### Features:

- Series with the Highest Range of Motion
- 16", 20", 22", and 24" Rack Depths
- Layflat and Center Pivot Options
- Customizable Modular Design
- Designed for Transit Case, IT Racks, and Rugged Environments.
- Proprietary 30 and 60-pound Torque Hinge
- MIL-Spec Friction Slide Rails



PDD2-U16

COMING SOON!



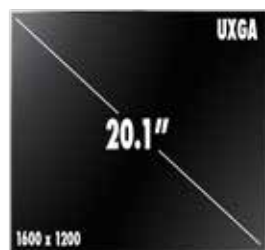




PDD1-T20



PDD2-T20



PDD1-T2420L



PDD2-T2220L

# A Flexible Solution.

Stow your keyboard, while keeping your display up and running.

The RD1U-S20 and RD2U-S20 are our Split Series drawer.

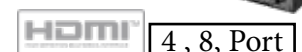
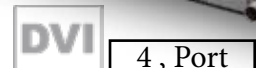
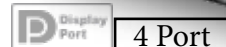
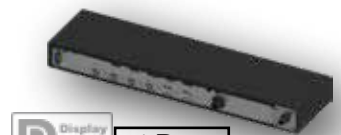
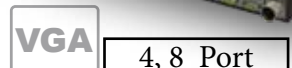
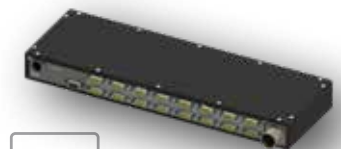
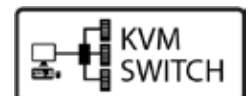
These units have the monitor on one set of slide rails, and the keyboard and mouse on another. This allows the keyboard and monitor to be moved independently from one another.

Stow your keyboard into the rack without having to touch the monitor. The monitor will continue to display with or without the keyboard deployed.

## RD1U-S and RD2U-S Split LCD/Keyboard Rugged Transit Case and Rack Drawers Keyboard and Monitor Move Independently

### Features:

- Independent guide rail system for both keyboard and monitor Move Independently
- All aluminium construction
- Rear Telescoping Mounting Arms
- Multiple KVM Options Available (Some Limitation, Ask you Sales Engineer)
- Available in 20", 24" Rack Depth.
- Customizable Modular Design
- Various Front Face Options
- Designed for Transit Case, IT Racks, and Rugged Enviornments.



RD1U-S20





board



Screen Closed  
Keyboard Retracted  
Front View



Screen Extended  
Keyboard Retracted  
Front View



Screen Open, Extended  
Keyboard Retracted  
Front View



Screen Open, Stable  
Keyboard Retracted  
Front View



RD2U-S24



Screen Open, Stable, 105°  
Keyboard Extended  
Front View

Keyboard

Mouse



KVM SWITCH

RD2U-S24

DVI

8 Port



HDMI

16 Port



RD2U-S20

VGA

4 Port

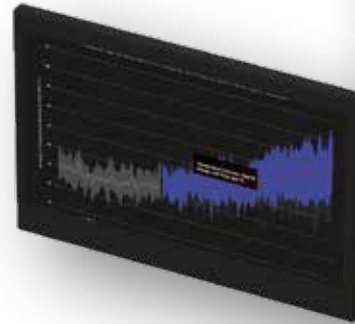
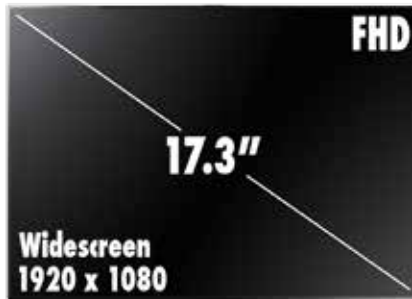


# RD3U and RD4U Hydra Series

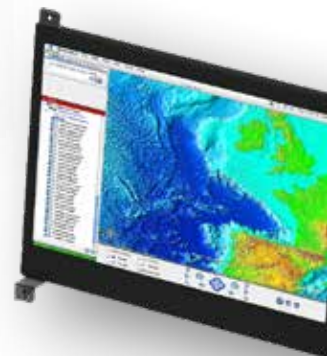
## Multi Head Rack Drawers with Keyboard and Mouse

### Features:

- Multi Monitor solutions available in 2, 3 or 4 screen sizes
- Offered in 18", 20", 22", 24", depths
- Built for straight-in integration into your rack and transit case (less than 10 minutes)
- Customizable, modular design
- Options for rugged environments available
- Heavy Duty torque hinges with 30k cycles
- KM Switches Can be Integrated for Auto switching your Mouse and Keyboard to Multiple Computers



### Video In







**RD4U-F20173Wx4**



**RD3U-F24173Wx3**

## Experience The Evolution.

Two, Three, or Four Monitors Fold into 2U to 4U Rack spaces with the Hydra Series.

Like the mythical beast of greek mythology, the Hydra Series is characterized by its formidable size and multi-headed design.

The PDD3 configurations are monitor only (no keyboard drawer). This series is capable of up to 4 monitors, ranging in depth from 18" to 26", and a height 2U to 4U. The PDD3 hydra can be paired with our RDKB Keyboard Series to create a complete console, with Monitor, Keyboard, Mouse, and Multiple KVM options.

The RD3U and RD4U builds are complete consoles that come with built-in keyboards and optional KVM Switches in a 3U or 4U rack height. These units follow the same building blocks philosophy as our other units.

**HYDRA**  
MULTI-HEAD RACK MOUNT DISPLAYS



# PDD3 Hydra Series

Multi Head Rack Drawers Monitors Only



Our V33x Controller is the reason the Hydra Series because it works along with HDMI and DVI



PDD3-F18173Wx3



PDD3-F20173Wx4



PDD3-F2219Lx2



PDD3-F2219Lx3



PDD3-F26215Wx4



These are Some Samples we have Built with our Hydra Building Blocks. Let us Know your Exact Requirements and we will design one you fit your application!



PDD3-F26238Ux2





the Most Popular Card for our  
it gives you legacy VGA input  
Display Port on every Screen



# Monitors, Monitors, Monitors.

Two, Three, or Four Monitors Fold into  
2U to 4U Rack spaces with the Hydra  
Series.

Like the mythical beast of greek mythology, the Hydra Series is characterized by its formidable size and multi-headed design.

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# RDKB: Rack Drawer Keyboard Series

## Transit and Rack Keyboard and KVM Solutions

### Features:

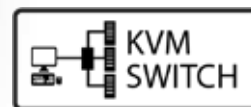
- Compact 1U height and 17" Depth
- 17", 20", 24", and 26" depths available
- Mil Spec Slide Rails
- Extensive Keyboard, Pointer, Joystick, and KVM options available
- Designed to Pair with our other Monitor Series (PDD1, PDD2, PDD3, DTS)
- Highly Customizable



RDKB-T17xx



RDKB-T26xx







# Keyboard Solutions.

Keyboard and Mouse Pointer  
Integrated Drawer Solutions.

Have a rack drawer setup, but are missing the mouse and keyboard? DITHD has dedicated rack drawer products designed for durability, and able to meet Mil-Spec requirements.

The RDKB Series pairs perfectly with PDD1, PDD2, PDD3, and our DTS products. The slim, 1U design of our RDKB can be built as short as 15" in depth, providing a sleek and low profile solution that can fit almost anywhere. Deeper RDKB options come with integrated KVM options.



# DTS Panel/Rack Mount

## Features:

- DTS-RAx and RS Rack Mount fits inside a standard 19" rack RA is Made From All Aluminum where RS is Aluminum Milled Face and Steel Chassis
- DTS-ORxx On Rack is designed to fit on a standard rack
- DTS PMxx Panel Mount Monitor can be cut into a wall or ship hull and mounted flush with a Beauty Ring
- DTS-OFxx Open Frames are a monitor with a Faraday Cage and Controller
- PCAP, and Resistive Touch are Available on All DTS Monitors
- High Bright and Lens Enhancement options Available



**DTS-PM238U**

Panel or VESA Flex Mount System



**DTS-RA20L**

8U Rack Monitor



**DTS-RS19L**

8U Rack Monitor



**DTS-RA320U**

17U Rack Monitor



# Open Integration.

Utilize our 'Display and Touch' Series monitors in Racks, On Rack, Panel Mount or Open frame.

Popular for wall-mounted touch screens, the DTS Series offers a variety of monitor sizes in our proprietary Flex Mount system. This allows for ease of installation, even in difficult locations.

On the odd occasion that DITHD does not have the panel housing you require, we can easily leverage our existing Building Blocks list to accomodate custom requests.

Our DTS Series comes in several formats, such as Rack Mount (RA and RS), On Rack (OR), Panel Mount (PM), and Open Frame (OF).

Video In

DVI

VGA

HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

Display  
Port

Composite  
Video

YPbPr

3G SDI

MULTI View  
PIP  
PBP  
Quad View

VECTOR  
SCOPE



8U On Rack Monitor  
With Articulating Arm

**DTS-OR215W**

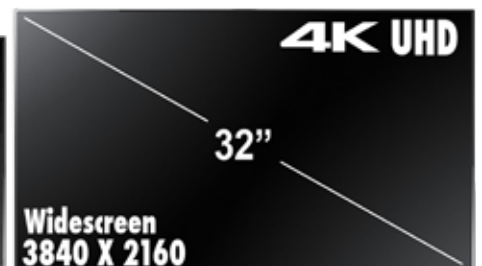
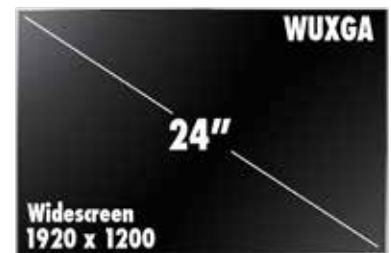


**DTS-OR240W**

9U On Rack Monitor

Monitor

5:4





# MMR Series

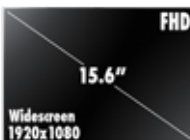
## Rugged Mobile Monitor

### Features:

- All-Aluminium Construction
- Wireless Transmit/Receive
- Broadcast-Quality LCDs
- Screen Sizes: 101W, 156W, 121W, 173W, 215W
- 1/4" Headphone Jack
- Vectorscope, Waveform, and Histogram Ready
- Splash/Dust Proof Port Covers
- Rugged Carrying Handle
- Customizable, Modular Design
- Built-In Speakers (On Models 156W & Larger)
- Built-In Kickstand



**MMR-D173Wxx**



**3G SDI**

**HDMI™**  
HIGH DEFINITION MULTIMEDIA INTERFACE

**VGA**





# Broadcast The Difference.

Rugged, Portable, and Now With  
Up to Three 4K Panels.

The MMR Series offers rugged, portable monitors in weatherproof cases. The standard MMR case is all-aluminium, has an integrated carrying handle, battery-capability, and ready for a variety of outdoor uses.

The MMR-U (Ultra Series) sets the new standard in rugged portable displays. It features native 4k panels in single, dual, or triple screen configurations. Whether you're shooting your next feature film in Alaska, collecting drone footage in the Amazon Jungle, or mapping the Gobi Desert, be sure to experience it in true 4K.



MMR-U238x3



Battery  
Capable



Transmit  
Receive



VECTOR  
SCOPE



WAVE  
FORM



HISTOGRAM



Display  
Port

12G SDI



HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

RS-232



1/4"  
Audio Jack

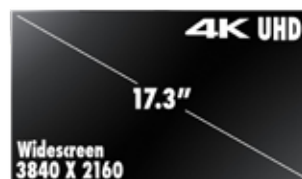


Battery  
Capable

4K



Transmit  
Receive



# MMR-UK Series



MMR-UK19L



## Take Your Monitor Anywhere.

Rugged, Battery-Capable Monitor Solutions  
for Any Environment!

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

Our MMR-UK (Underwater Kinetics) consists of an LCD display, housed in our UnderWater Kinetics 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 case.

The UK series is available in several different case and monitor sizes, and features single or triple screen configurations. Whatever the component, it can be integrated into our resilient MMR-UK!





## Features:

- Splash-Proof Underwater Kinetics Case
- Single Monitor Compatible With Any Controller Card
- Single Monitor Screen Sizes: 156W, 173W, 215W
- DITHD's Most Customizable Product Line
- MMR-UK HYDRA Available in Double or Triple Screen Configurations
- Multi-Monitor Compatible With Any HYDRA Series DITHD Controller Card
- Triple Monitor Screen Sizes: 173W, 215W
- Available 4K Panels



**MMR-UK173Wx3**



# Full-Immersion.

High Bright Mobile Monitors with Full-Submersibility to 5 Feet!

The Poseidon portable display solution adds a new dimension to the ever-expanding MMR line.

The Poseidon is professionally sealed and rated IP68, rendering it submersible to a depth of 5 feet. Power and connective cables run through an umbilical line, making it great for short-term, shallow depth submersion and high-splash environments.

The MMR-Poseidon has been, and continues to be employed in a variety of high-profile settings and environments, including the recently-released film *The Meg*, starring Jason Statham.





# MMR-Poseidon

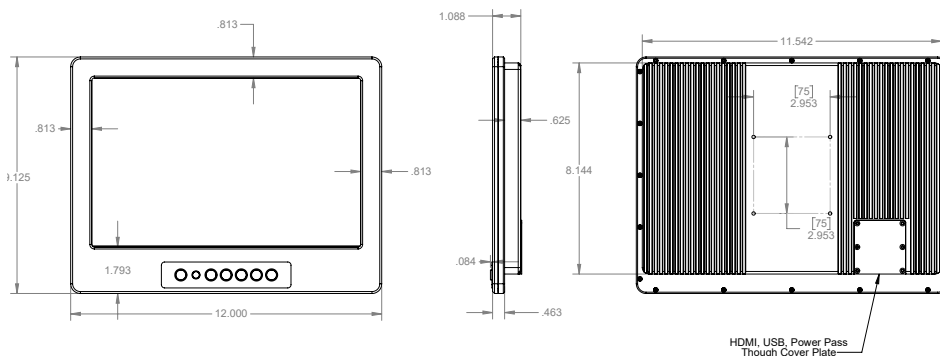
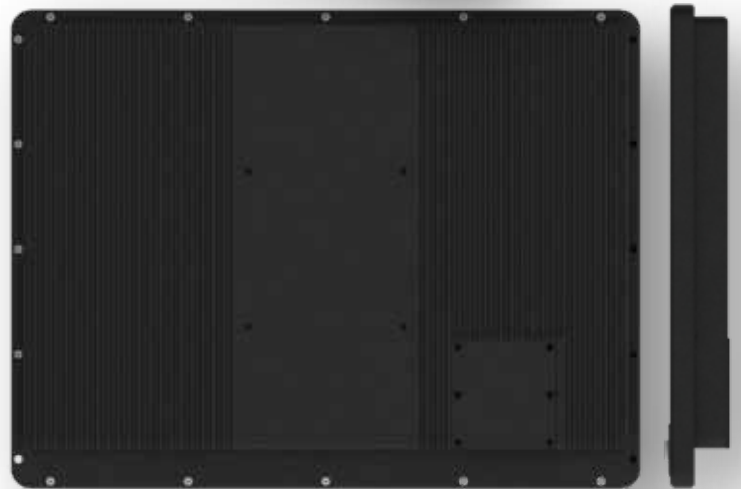
Water-Submersible Rugged Mobile Monitor



MMR-P173W

## Features:

- Elite, Water-Proof Monitor Solution
- V257x Poseidon Controller Card
- Screen Sizes: 121HB, 173HB
- Milled-Aluminium Construction
- Sealed, Splash and Dust Chassis
- Customizable, Modular Design
- Comes standard with High Bright Panels
- Optional Battery Cradle
- Optional PCAP Touch
- Optional Optical Bonding



## The Ultimate Monitor.

Rugged Display Solutions specifically designed for Military Applications.

The FHD and UHD series represent our Full High Definition (1920x1080) and Ultra High Definition (3840x2160) displays.

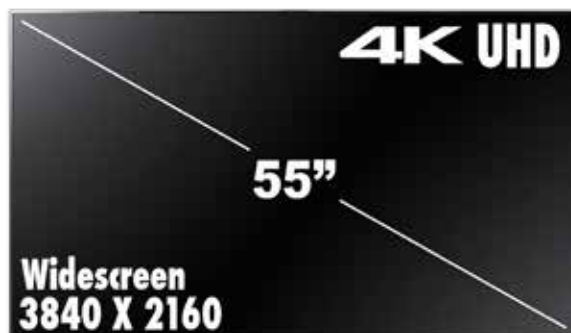
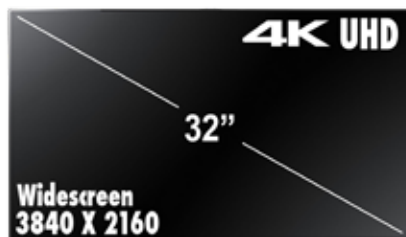
They are built with an aluminium, welded chassis, and have an AR/AG protective glass lens. High Bright, PCAP Touch, and Optical Bonding options are available. It comes with our flex mounting system which includes a VESA mounting pattern on the rear and a standard side arm desktop stand.

# Tactical Displays Series

## Entry-Level Rugged Mobile Monitor

### Features:

- Aluminium Welded Chassis
- Flex Mounting System, which includes VESA Mounting Pattern
- AR/AG Protective Glass Lens
- Available in 32" and 55"
- On Screen Display (OSD) Controls
- Optional enhancements include Optical Bonding, High Bright LED Backlighting, and PCAP Touch
- Multiple AD Controller Cards Available
- PIP, PBP, Quadview Available on Advanced Controller Cards.
- Very wide range of input options available







FHD-Bxx

UHD-Bxx



DITHD.com



(760) 599 9225



Sales@2s2.com



1357 Rocky Point Dr, Oceanside, CA 92056