

20250123

Our Military Rack drawer monitor MR224xx Series was designed from the ground up to meet the rugged environmental requirements. It comes standard with an EMI Lens Enhancemnt. It's Option include but are not limited to: Optical Bonding, High Bright and/or NVIS Backlight system, and MIL Spec Touch. 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 Conformal Coated for and extra level of protection. Its Specifically Designed for Rack Mount or Transit Case Applications. 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 Rack monitor (MR series).



Features:

- MIL Spec Enhanced Monitor
- · Mil Spec Keyboard
- * Multiple to Choose From
- Integrated Cable Guide System
- · Conformal Coated Electronics
- Multiple Controller Cards and KVM Switches Options to Chose From Giving Flexibility to your I/O Needs.
- Milled Aluminum Telescoping Rear Arms With Reverse L Quick Install Technology
- *Easy Install into Rack and Transit Case
- Mil Spec C90 Power Inlet:
 *Can Be Customized to your application,

Options:

- Multiple Lens Enhancement available:
- · High Bright, Daylight Viewable option
- 461G EMI, ITO Glass Enhancement
- · Optional Optical Bonding for Grade A Shock
- MILSPEC PCAP and Resistive Touch Options

Comes Standard

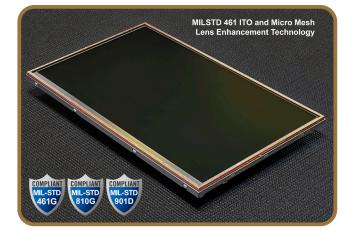
- Rugged All Aluminum Construction
- MIL Standard C300 Friction Slides
- Anti Glair, Chem Strengthened Cover Glass
- Shock and Vibe Rugged Design 810G, 167
- Fits 19" Rack and Transit Cases
- MIL Standard C90 2 Pin Power Inlet



PCRS - Positive Connector Retention System Employed



Rugged Commercial
Connectors Shown









Popular KVM Switch Options













IPx: 8, 16, 32 Port RJ45 KVM Switch DVI, VGA, HDMI, and Display Port Supported

*Other Back Housing Configurations to Choose from or have us make a custom one for you.

Video Controllers

V43x Rugged FHD Controller

- Max Resolution 1920x1200 60hz
- Input Options Available: HDMI x1, VGAx1, Display Port x1
- Designed to Meet Shock and Vibe Requirements
- · Command and Controls: Consolidated OSD Buttons on Front

V35x Rugged Embedded Controller

- · For Use with Integrated KVM Switch Options
- Max Resolution 1920x1200 60hz
- · Input Options Available: VGAx1, Display Port x1 (HDMI, DVI-D, or 3G-SDI pick only 1)
- · Designed to Meet Shock and Vibe Requirements
- · Command and Controls: Consolidated OSD Buttons on Front
- · Optional 3G-SDI Interface can be Integrated

*Other Controller Cards Available with Multiple Options

Popular LCD Options

19LH SXGA 1280x1024 (Max Res)

19" LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 85/85/80/80
- · Contrast Ratio: 1000:1
- Brightness: 350 NITS
- Response Time: 10ms
- Surface Finish: AG, 3H
- Color: 6-bit+HiFRC (16.7M), NTSC 70%
- Operating Temp: -30°C to 85°C
- Storage Temp: -30°C to 80°C

19" LED Backlit LCD w/ Anti-Glare

19HB **SXGA 1280x1024** (Max Res)

- Viewing Angles: 85/85/80/80
- · Contrast Ratio: 1000:1
- · Brightness: 1600 NITS
- · Response Time: 10ms
- Surface Finish:AG, 3H Color: 8 Bit (16.7M), NTSC 70%
- Operating Temp: -30°C to 70°C
- Storage Temp: -30°C to 70°C





17.3"

173W FHD 1920x1080 (Max Res)

17.3" Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 80/80/60/80
- · Contrast Ratio: 600:1
- · Brightness: 400 NITS
- Response Time: 40ms
- · Surface Finish: AG, 3H
- Color: 6-bit+HiFRC (16.7M)
- Operating Temp: 0°C to 70°C
- Storage Temp: -20°C to 70°C

173HB FHD 1920x1080 (Max Res)

17.3" Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 80/80/60/80
- · Contrast Ratio: 600:1
- Brightness: 1000 NITS • Response Time: 40ms
- Surface Finish: AG, 3H
- · Color: 6-bit+HiFRC (16.7M)
- Operating Temp: 0°C to 70°C
- Storage Temp: -20°C to 70°C



17.3"

High OBright

New and Hot

173U1 UHD 3840 x 2160 (Max Res)

17.3 Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 85/85/85/85
- · Contrast Ratio: 12000:1
- · Brightness: 1300 NITS
- · Response Time: 35ms
- · Surface Finish: AG
- Color: 8bit (16.7M), 100% ADOBE RGB
- Operating Temp: -20°C to 70°C
- Storage Temp: -30°C to 80°C

*Other Panels and lens Enhancement Available

Popular Keyboard Options



- M: Series Military Industrial Grade Keyboard
- · 119 key US or UK layout and a high quality touch pad
- Optional CAC Card Reader on MR Series
- Continuous Use, 50 million cycles
- Storage: -20°C to +65°C, Operating: 0°C to +50°C



- M1 Series: Thin, rugged military-grade keyboard with touchpad and FSR
- Designed to meet MIL-461G standards, MIL-STD-810F
- Adjustable green LED backlighting Storage: -40°C to +85°C, Operating: -32°C to +60°C
- Optional NVIS Green B.



- M2 Series: Thin Military OEM Keyboard
- Integrated FSR pointing device Industrial silicone rubber Continuous Use: 10 million cycles
- Storage: -40°C to +90°C, Operating: -40°C to +60°C
- Optional NVIS Compliant Green B backlighting



- M3 Series: Mobile Keyboard w/ Force Sensing Resistor
- Integrated FSR pointing device
- · Resistant to sand, debris and the elements
- · Continuous Use, 10 million cycles
- Storage: -40°C to +65°C, Operating: -40°C to +70°C
- 12 Function Keys, MS Windows Function Keys



- · Q Series: NEMA 4 Sealed Keyboard Series with Glidepad
- · Rugged Keyboard No EMI protection
- · Integrated 2 button glidepad with option for backlit keys
- Resistant to sand, debris and the elements
- Continuous Use, 10 million cycles
- Storage: -40°C to +90°C, Operating: -40°C to +70°C

*Other Keyboards Available



SPECIFICATIONS

Dimensions: 19"W x 3.5"H x 24"D

Weight: ~ 28-32 LBs (MR224xx

· Power Consumption: 30W to 50W Values are approximate and vary based on configuration









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 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 knowledgeable Sales Engineers to help to Spec in a unit to meet your required needs.

TERMS & CONDITIONS

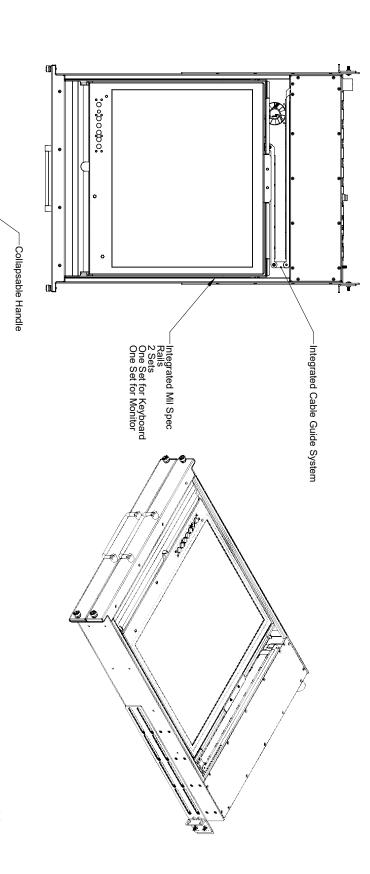
DITHD only Guarantees our Units Will pass Mil-Spec Testing when Mil-Spec Testing is purchased through DITHD and its partnering 3rd party independent Labs.

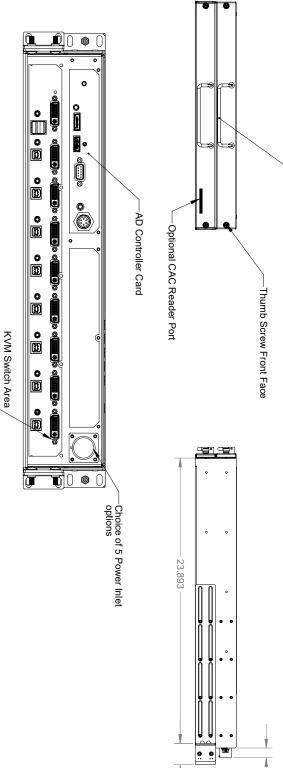












1.792

.810

3.471







Specifications

Detailed Specifications are for the 19M1 Monitor We can supply Detailed Specs other Monitors upon Request

LCD Characteristics:

Color Gamet (NTSC): 70%	Touch:	Lens Enhancment:	Lens Treatment:	Response Time (ms):	MTBF (hrs): 50,000	Max. Color:	Pixel Size (HxV) mm: 0.294×0.294 mm	View Angles (H/V):	Brightness (cd/m2): 350	Contrast Ratio:	Resolution:	Backlight Type:	Screen Spec:
70%	Optional (Resistive or PCAP)	Optical Bonding	Antiglare, Hard Coating (3H)	8	50,000	16.7M	0.294×0.294 mm	85/85/80/80	350	1000:1	1280 x1024	LED	Screen Spec: 19M1, a-Si TFT LCD

Input Signals:

USB:	Display Port:	HDMI or DVI:	VGA:
USB 2.0 Type A	Display Port: Stabdard DP Connector	HDMI or DVI: Standard HDMI or Stadard DVI-D	VGA: DB15 Male

Power Specifications:

AC Power Supply:	Connector:	DC Power Input:
AC Power Supply: UL Listed AC/DC Brick (Optional MIL SPEC)	Connector: MIL lock connector (C90 Connector Standard)	DC Power Input: 12VDC (Optional 9-36VDC)

Mechanical and Environment:

Height:	3.5"		
IP Protect:	TBD, Based On Requirements	Requirement	S
Mounting:	19" Transit Case 24 to 32" Depth	24 to 32" De	∍pth
Construction:	Aluminum Housing with black powder coating	าg with black	cpowder coating
Operating Temperature:	-30°C ~ 85°C	Method 5	Method 501.4 and 502.4
Storaging Temperature:	-30°C ~ 85°C	Method 5	Method 501.4 and 502.4
Operating Humidity:	5% - 95%, non -condensing	condensing	Method 507.4
Anti-Vibration:	5 - 500 Hz / 1 Grms PTP	ms PTP	Method 514.5
Anti-Shock:	15G / Peak (11 ms)	ns)	Method 516.5
Physical Dimension (WxHxD):	19" x 3.5" x 24" (in)	in)	
Packing Dimension (WxHxD):	22"x8"x36" (in)		
Net Weight / Gross Weight:	(32Lbs/40Lbs)		
Certification and Approvals:	UL/CE/ FCC RoHs	ЬS	
Altitude Test:	12,500/40,000ft (Operational/No-Operational)	Operational	No-Operational)

User Controls Interface:

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





