The DITHD MR24xx Series Military KVM Rack Drawer 1U Monitor is designed to meet stringent MIL-SPEC environmental standards. It comes equipped with a standard Chem Strengthened Anti-Glare Cover Lens, with optional features including 461G, EMI-ITO Glass Enhancement, optical bonding, high brightness, and MIL-SPEC touch functionality. Built to comply with various MIL-SPEC requirements straight from the shelf, we also offer customization to address specific needs. Constructed from 5052H32 and 6061T6 aluminum, the unit is precisely laser-cut and milled for outstanding durability. Internal components can be conformally coated for enhanced protection. This monitor is specifically designed for rack mount or transit case applications, reflecting meticulous attention to detail in every aspect of its design, making it a top choice for military-grade rack monitor applications (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 Including: Heated Glass, NVIS Backlight
- High Bright, Daylight Viewable option
- 461G EMI, ITO Glass Enhancement
- Optional Optical Bonding for Grade A Shock
- 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, 901D, 167
- •Fits 19" Rack and Transit Cases
- MIL Standard C90 2 Pin Power Inlet



PCRS - Positive Connector Retention System Employed



ISO Rear 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

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

19" LED Backlit LCD w/ Anti-Glare

- 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





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

17.3"

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



HOT New!

173U UHD 3840 x 2160 (Max Res)

17.3 Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 89/89/89/89
- · Contrast Ratio: 1000:1
- · Brightness: 400 NITS
- · Response Time: 27ms
- · Surface Finish: AG
- Color: 8bit (16.7M), 100% ADOBE RGB
- Operating Temp: 0°C to 50°C
- Storage Temp: -20°C to 60°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

Base Series Chassis Project Number . Display Size . Revision XX 1U MILSPEC 24" Deep

Custom Options Available On All DITHD Models

SPECIFICATIONS

Dimensions: 19"W x 1.75"H x 24"D

Weight: ~ 25 LBs (MR24173M1)

· 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 must 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.





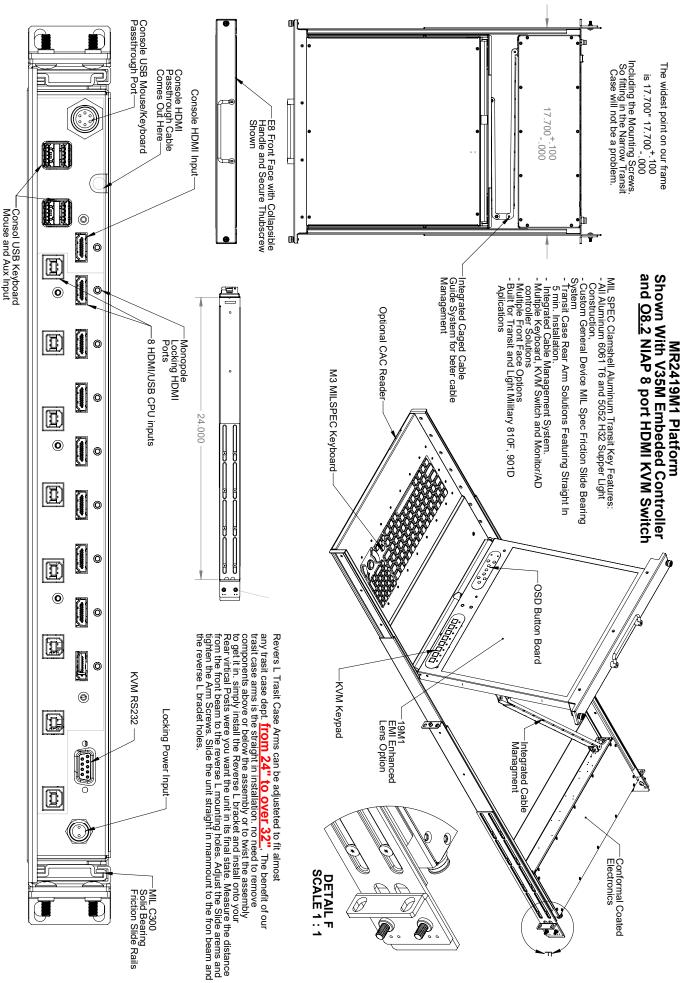


Mechanical Drawings

Samples of some of the Custom Projects we have done for our customers

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











Specifications

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

LCD Characteristics:

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

Input Signals:

USB:	Display Port:	HDMI or DVI:	VGA:
USB 2.0 Type A	Display Port: Locking Full Size Display Port	HDMI or DVI: Locking HDMI	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:

			Altitude Test:	Certification and Approvals:	Net Weight / Gross Weight:	Packing Dimension (WxHxD):	Physical Dimension (WxHxD):	Anti-Shock:	Anti-Vibration:	Operating Humidity:	Storaging Temperature:	Operating Temperature:	Construction:	Mounting:	IP Protect:	Height:
			12,500/40,000ft (Operational/No-Operational)	UL/CE/ FCC RoHs	(25Lbs/30Lbs)	22"x5"x32" (in)	19" x 1.75" x 24" (in)	15G / Peak (11 ms)	5 - 500 Hz / 1 Grms PTP	5% - 95%, non -condensing	-30°C ~ 85°C	-30°C ~ 85°C	Aluminum Housing with black powder coating	24" Rack Mount with Rear Arms 24 to 32" Depth	TBD, Based On Requirements	1.75"
	oHs ft (Operational/		(in)	(in)	ns)	ms PTP	condensing	Method 5	Method 5	ng with black	ith Rear Arm	Requirement				
			No-Operational)					Method 516.5	Method 514.5	Method 507.4	Method 501.4 and 502.4	Method 501.4 and 502.4	powder coating	s 24 to 32" Depth	S	

User Controls Interface:

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

Rev: 20250203





