The DITHD MR20xx 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).





- 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:

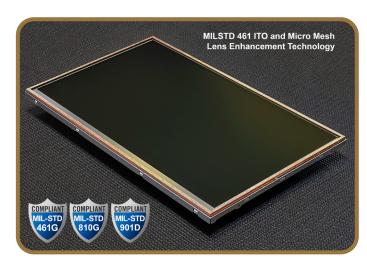
- Multiple Lens Enhancement available Including: Heated Glass, NVIS Backlight
- · High Bright, Daylight Viewable option
- 461G EMI, ITO Glass Enhancement
- Optional Optical Bonding for Grade A Shock
- PCAP and Resistive Touch Options

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



Rugged Commercial Connectors Shown









Popular KVM Switch Options



D1: 4 Port DisplayPort KVM Switch



8 & 16 Port VGA KVM Switches



8 Port VGA/USB KVM Switch







*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

*Other Controller Cards Available with Multiple Options

· Optional 3G-SDI Interface can be Integrated

Popular LCD Options

15HB **SXGA 1024x768** (Max Res)

15" LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 80/80/70/80
- Contrast Ratio: 800:1
- · Brightness: 1800 NITS
- Response Time: 6ms
- · Surface Finish: AG, 3H • Color: 8 Bit (16.2M), NTSC 60%
- Operating Temp: -30°C to 70°C
- Storage Temp: -30°C to 70°C



BRIGHT

17LH **SXGA 1280x1024** (Max Res)

17" LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 80/80/60/80
- Contrast Ratio: 800:1
- · Brightness: 350 NITS
- Response Time: 20ms
- Surface Finish: AG, 3H
 Color: 6-bit+HiFRC (16.7M), NTSC 72%
- Operating Temp: -30°C to 85°C
- Storage Temp: -30°C to 80°C



17HB **SXGA 1280x1024** (Max Res)

17" LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 85/85/80/80Contrast Ratio: 800:1
- · Brightness: 1600 NITS
- · Response Time: 15ms
- Surface Finish:AG, 3H
- · Color: 8 Bit (16.7M), NTSC 72%
- Operating Temp: -20°C to 65°C
 Storage Temp: -30°C to 70°C





173W FHD 1920x1080 (Max Res)

17.3" Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 80/80/60/80Contrast Ratio: 600:1
- · Brightness: 400 NITS
- · Response Time: 40ms
- Surface Finish: AG, 3H
- Color: 6-bit+HiFRC (16.7M)
 Operating Temp: -10°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: -10°C to 70°C
- Storage Temp: -20°C to 70°C



17.3"

Revision

XX

17.3"

Hot New!

173U **UHD 3840 x 2160** (Max Res)

17.3 Wide LED Backlit LCD w/ Anti-Glare

- Viewing Angles: 89/89/89/89Contrast 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

Base Series Display Size . Project Number . Chassis 1U MILSPEC 17" Deep 15Mx, 17Mx, 173Mx

Custom Options Available On All DITHD Models

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 1.75"H x 20"D

Weight: ~ 20 LBs (MR2017M1

· Power Consumption: Less than 30W 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 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.







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

17Mx

LCD Characteristics:

Color Gamet (NTSC): 72%	Touch:	Lens Enhancment:	Lens Treatment:	Response Time (ms): 20	MTBF (hrs): 50,000	Max. Color:	Pixel Size (HxV) mm: 0.264×0.264 mm	View Angles (H/V): 80/80/60/80	Brightness (cd/m2): 350	Contrast Ratio:	Resolution: 1280 x1024	Backlight Type:	Screen Spec:
72%	Optional (Resistive or PCAP)	M1=Optical Bonding	Antiglare, Hard Coating (3H)	20	50,000	16.7M	0.264×0.264 mm	80/80/60/80	350	800:1	1280 x1024	LED	Screen Spec: 17M1, a-Si TFT LCD

Input Signals Avalible:

V35x Embeded Controller

VGA:	VGA: DB15 Male
HDMI OF DVI	HOMI OF DVI: Locking HOMI Connector
Display Port:	Display Port: Locking Full Size Display Port
Optional Touch: USB 2.0 Type A	USB 2.0 Type A

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:
			10,000/30,000ft (Operational/No-Operational)	UL/CE/ FCC RoHs	(17Lbs/25Lbs)	22"x5"x25" (in)	19" x 1.75" x 20" (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	20" Rack Mount with Rear Arms 20 to 28" Depth	TBD, Based On Requirements	1.75"
			Operational	s			(in)	ns)	ms PTP	condensing	Method 501.4 and	Method 5	າg with black	ith Rear Arm	Requirement	
			/No-Operational)					Method 516.5	Method 514.5	Method 507.4	01.4 and 502.4	Method 501.4 and 502.4	powder coating	1s 20 to 28" Depth	โซ	

User Controls Interface:

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

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LCD Characteristics:

Specifications

Screen Spec:	Screen Spec: 173M1, a-Si TFT LCD
Backlight Type:	LED
Resolution:	1920×1080
Contrast Ratio:	600:1
Brightness (cd/m2): 400	400
View Angles (H/V):	80/80/60/80
Pixel Size (HxV) mm: 0.1989×0.1989 mm	0.1989×0.1989 mm
Max. Color:	16.7M
MTBF (hrs): 50,000	50,000
Response Time (ms):	20
Lens Treatment:	Antiglare, Hard Coating (3H)
Lens Enhancment:	M1 = Optical Bonding
Touch:	Optional (Resistive or PCAP)
Color Gamet (NTSC): 72%	72%

Input Signals Avalible:		V35x Embeded Controller
VGA:	VGA: DB15 Male	
HDMI or DVI: Locking HDMI Connector	Locking HDN	MI Connector
Display Port:	Locking Full	Display Port: Locking Full Size Display Port
Optional Touch: USB 2.0 Type A	USB 2.0 Typ	e A

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:	
			10,000/30,000ft (Operational/No-Operational)	UL/CE/ FCC RoHs	(17Lbs/25Lbs)	22"x5"x25" (in)	19" x 1.75" x 20" (in)	15G / Peak (11 ms)	5 - 500 Hz / 1 Grms PTP	5% - 95%, non -condensing	-20°C ~ 70°C	-10°C ~ 70°C	Aluminum Housing with black powder coating	20" Rack Mount with Rear Arms 20 to 28" Depth	TBD, Based On Requirements	1.75"	
			(Operational	З			(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 20 to 28" Depth	is is		

User Controls Interface:

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

Rev: 20250605







Mechanical Drawings

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

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



