

MR19xx

1U Military KVM Rack Drawer



20250123

The DITHD MR19xx 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 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).



MR1919Mx Shown

Features:

- MIL Spec Enhanced Monitor
- Mil Spec Keyboard
 - * Multiple to Choose From
- Integrated Cable Guide System
- Conformal Coated Electronics.
- 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 Glass Enhancement
- Optional Optical Bonding for Grade A Shock
- MIL PCAP and Resistive Touch Options

Comes Standard

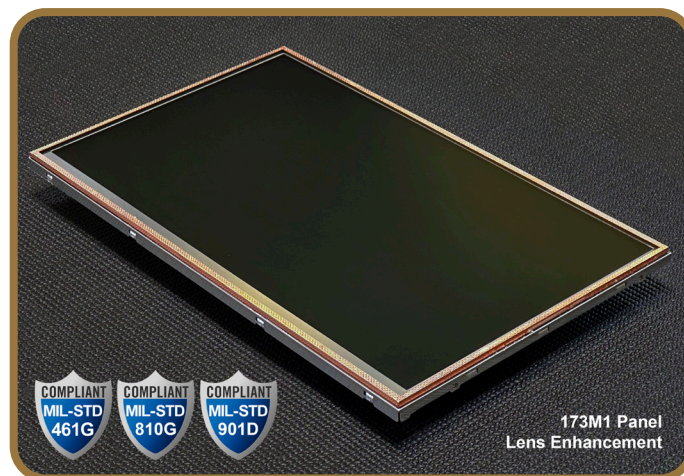
- Rugged All Aluminum Construction
- MIL Standard C300 Friction Slides
- Anti Glair, Chem Strengthened Cover Glass
- Shock and Vibe Rugged Design 810G, 167
- Fits 19" Rack and Transit Cases
- MIL Standard C90, 2 Pin Power Inlet



Back Power Supply Cradle and Cable Pass Thru Shown



Rugged Commercial Connectors Shown



173M1 Panel Lens Enhancement

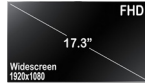


Popular LCD Options

173M1 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



19M1 SXGA 1280x1024 (Max Res)

19" LED Backlit LCD w/ Anti-Glare

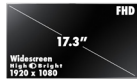
- Viewing Angles: 85/85/80/80
- Contrast Ratio: 1000:1
- Brightness: 350 NITS
- Response Time: 10ms
- Surface Finish: AG, 3H
- Color: 6-bit+HiFRC (16.7M), NTSC 70%
- Operating Temp: -30°C to 85°C
- Storage Temp: -30°C to 80°C



173M2 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



19M2 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

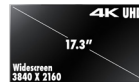


NEW! Hot!

173U1 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

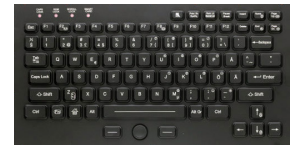
Popular Keyboard Options



- 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

Video Controllers

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



Base Series	Chassis	Display Size & Enhancement	Project Number	Revision
MR	19	19M1	XXXXXX	XX
1U MILSPEC	19" Deep	19M1, 173M1, 173U1	AB0001	00

► Custom Options Available On All DITHD Models

SPECIFICATIONS

- Dimensions:** 19"W x 1.75"H x 19"D
- Weight:** ~ 20 LBs (MR1919Mx)
- 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

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.

*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.



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.

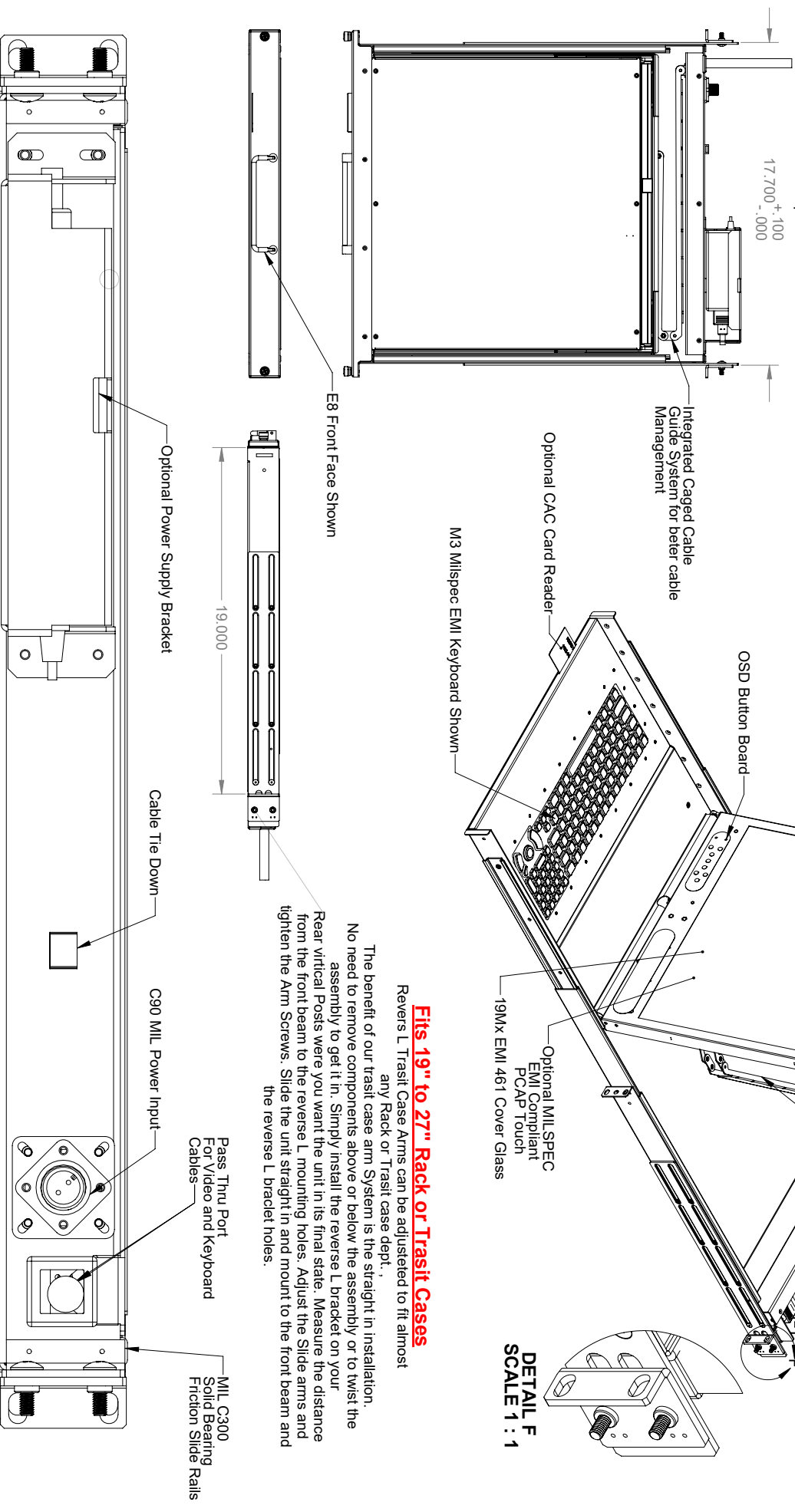


MR1919Mx Platform

MIL SPEC Clamshell Aluminum Transit Key Features:

- All Aluminum 6061 T6 and 5052 H32 Super Light Construction,
- Custom General Device MIL Spec Friction Slide System
- Transit Case Rear Arm Solutions Featuring Straight In 5 min. Installation.
- Integrated Cable Management System.
- Multiple MILSPEC Keyboards, and Monitors options to choose from.
- Multiple Front Face Options
- Built for Transit and Light Military 810G, 901D Applications

The widest point on our frame including the Mounting Screws. So fitting in a Transit Case will not be a problem.



Specifications

Detailed Specifications are for your Custom Application are available upon Request

LCD Characteristics:

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

Input Signals:

VGA:	DB15 Male (3' to 6' Cable)
HDMI or DVI:	Standard HDMI or Stadard DVI-D (3' to 6' Cable)
Display Port:	Stabdard or Mini Cable (3' to 6' Cable)
USB:	USB 2.0 Type A (3' to 6' Cable)

Power Specifications:

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

Mechanical and Environment:

Height:	1.75"		
IP Protect:	TBD, Based On Requirements		
Mounting:	19" Rack Mount with Rear Arms 19 to 27" Depth		
Construction:	Aluminum Housing with black powder coating		
Operating Temperature:	-30°C ~ 85°C	Method 501.4 and 502.4	
Storaging Temperature:	-30°C ~ 85°C	Method 501.4 and 502.4	
Operating Humidity:	5% - 95%, non -condensing		Method 507.4
Anti-Vibration:	5 - 500 Hz / 1 Grms PTP		Method 514.5
Anti-Shock:	15G / Peak (11 ms)		Method 516.5
Physical Dimension (WxHxD):	19" x 1.75" x 19" (in)		
Packing Dimension (WxHxD):	22"x5"x25" (in)		
Net Weight / Gross Weight:	(15Lbs/22Lbs)		
Certification and Approvals:	UL/CE/ FCC RoHS		
Altitude Test:	12,500/40,000 ft (Operational/No-Operational)		

User Controls Interface:

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

