

MR17xx

1U Military KVM Rack Drawer



The DITHD MR17xx 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).



MR1717Mx Shown



Iso Back View

Features:

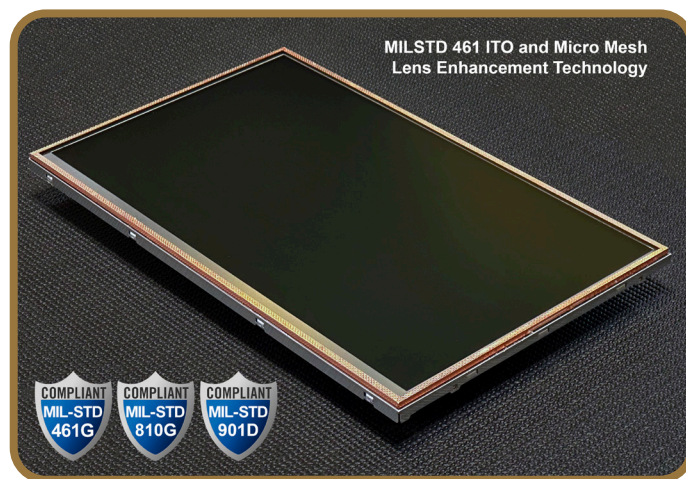
- MIL Spec Enhanced Monitor
- Mil Spec Keyboard
 - * Multiple to Choose From
- Integrated Cable Guide System
- Conformal Coated Electronics
- Multiple Controller Cards and KVM Switches Options to Choose From Giving Flexibility to your I/O Needs.
- Milled Aluminum Telescoping Rear Arms With Reverse L 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



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



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: 85/85/80/80
- Contrast 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



*Other Panels and lens Enhancement 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

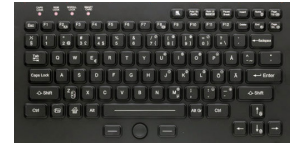
Popular Keyboard Options



- 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



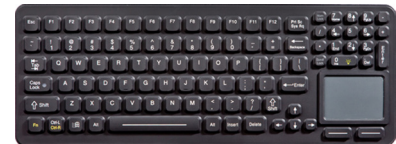
- M1 Series: Thin, rugged military-grade keyboard with touchpad and FSR**
- Designed to meet MIL-461G standards, MIL-STD-810F
- Adjustable green LED backlighting
- Storage: -40°C to +85°C, Operating: -32°C to +60°C
- Optional NVIS Green B.



- 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 backlight 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 17"D
- Weight:** ~ 20 LBs (RD1U-CAT2419LH)
- Power Consumption:** Less than 30W

Values are approximate and vary based on configuration



Base Series Chassis Display Size & Enhancement Project Number Revision

MR

1U MILSPEC

17

17" Deep

17M1

15Mx, 17Mx, 173Mx

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AB0001

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► Custom Options Available On All DITHD Models



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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 Spec in a unit to meet your required needs.



Mechanical Drawings

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

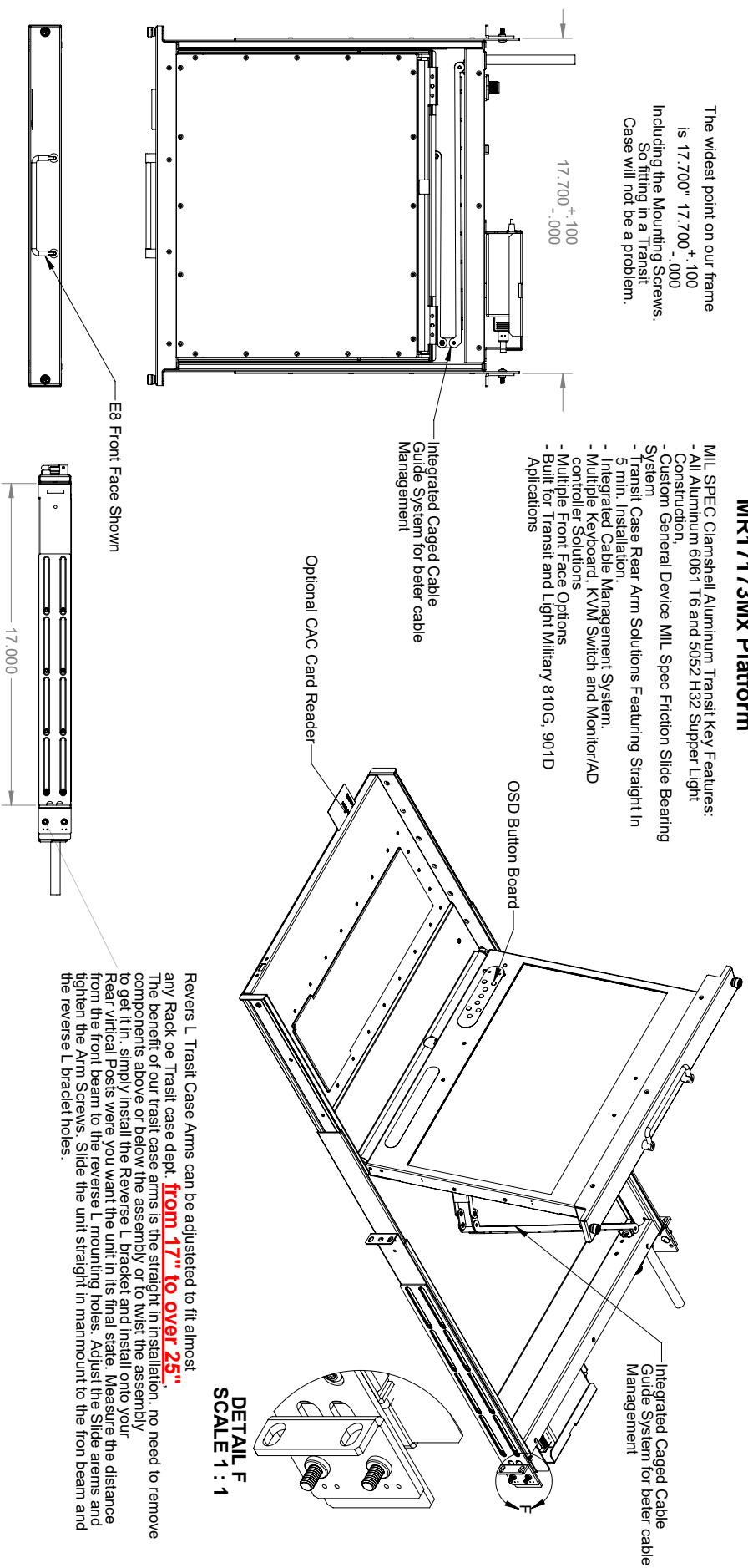
Mechanical drawings and 3D Solid Models
are available upon request. Contact your
sales representative for details.



MR17173Mx Platform

The widest point on our frame
is 17.700" \pm .100
Including the Mounting Screws.
So fitting in a Transit
Case will not be a problem.

- MIL SPEC Clamshell Aluminum Transit Key Features:
- All Aluminum 6061 T6 and 5052 H32 Supper Light Construction
 - Custom General Device MIL Spec Friction Slide Bearing System
 - Transit Case Rear Arm Solutions Featuring Straight In 5 min. Installation.
 - Integrated Cable Management System.
 - Multiple Keyboard, KVM Switch and Monitor/AD Controller Solutions
 - Multiple Front Face Options
 - Built for Transit and Light Military 810G, 901D Applications



Specifications

Detailed Specifications are for the 17M1
Monitor We can supply Detailed Specs other
Monitors upon Request

LCD Characteristics:

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

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:	17" Rack Mount with Rear Arms 17 to 25" 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 17" (in)		
Packing Dimension (WxHxD):	22"x5"x25" (in)		
Net Weight / Gross Weight:	(15Lbs/22Lbs)		
Certification and Approvals:	UL/CE/ FCC RoHs		
Altitude Test:	10,000/30,000 ft (Operational/No-Operational)		

User Controls Interface:

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

