

# MGP173Mx

## Mobile Graphics Platform



This New KVM Rugged Monitor Keyboard and Mouse looks like a laptop but is Just the Monitor and Keyboard/Mouse. in a rugged Milled Aluminum Platform for Ship Deck applications, will MILSPEC Connectors and High Bright Daylight Readable 461 MIL Spec Complaint Screen and Rugged Water Sealed IP65 Keyboard and Chassis..



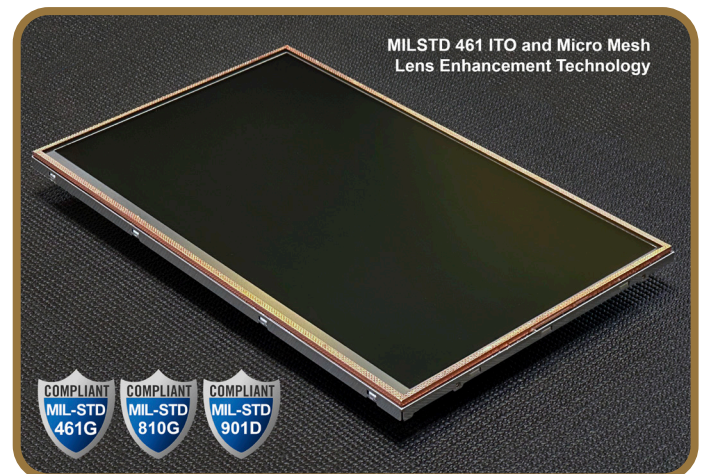
Front ISO View



Closed View



Back Power and Inlet View



### Features:

- MIL Spec Enhanced Monitor
- Mil Spec Keyboard
  - \* Two to Choose From
- Mil Spec Connectors integrated
- Conformal Coated Electronics.
- Mil Spec C90 Power Inlet:
  - \*Can Be Customized to your application,
- Multiple Lens Enhancement available Including:
  - Heated Glass, NVIS Backlight
- High Bright, Daylight Viewable
- 461G EMI Glass Enhancement
- Optical Bonding for Grade A Shock

### Options:

- MIL PCAP and Resistive Touch Options

### Comes Standard

- Rugged All Aluminum Construction
- Anti Glare, Chem Strengthened Cover Glass
- Shock and Vibe Rugged Design 810G, 167
- MIL Standard C90, 2 Pin Power Inlet

REV 20250909



1357 Rocky Point Dr., Oceanside CA 92056  
760.599.9225 | [www.DITHD.com](http://www.DITHD.com) | Cage Code 787R6 | [sales@DITHD](mailto:sales@DITHD)

# Specifications

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

173Mx



## LCD Characteristics:

Screen Spec:	173M2 High Bright , a-Si TFT LCD
Backlight Type:	LED
Resolution:	1920 x1080
Contrast Ratio:	1000:1
Brightness ( cd/m2 ):	1500
View Angles ( H/V ):	80/80/60/80
Pixel Size ( HxV ) mm:	0.1989×0.1989 mm
Max. Color:	16.7M
MTBF (hrs):	50,000
Response Time (ms):	20
Lens Treatment:	AG Chem Strengthened Glass
Lens Enhancement:	EMI 461, Optical Bonding
Touch:	Optional (Resistive or PCAP)
Color Gamet (NTSC):	72%

## Input Signals:

VGA:	DB15 Sealable
HDMI or DVI:	Option MIL STD Mini HDMI
Display Port:	Mil Spec Mini Display Port Connector
USB:	Mil Spec USB 2.0 Connector

## Power Specifications:

DC Power Input:	12VDC (Optional 9-36VDC)
Connector:	MIL lock connector (C90 Connector Standard)

## Mechanical and Environment:

Height:	3.26" Closed, 13.5 to 14.45" Opened		
IP Protect:	IP65		
Mounting:	Deck Mountable Via 1/4-20 Hole Pattern		
Construction:	Aluminum Housing with MIL powder coating		
Operating Temperature:	-10°C ~ 70°C	Method 501.4 and 502.4	
Storage Temperature:	-20°C ~ 75°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):	17.23" x 3.26" x 13.71" (in)		
Packing Dimension (WxHxD):	22"x5"x25" (in)		
Net Weight / Gross Weight:	(22Lbs/28Lbs)		
Certification and Approvals:	UL/CE/ FCC RoHS		
Altitude Test:	12,500/40,000ft (Operational/No-Operational)		

## User Controls Interface:

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



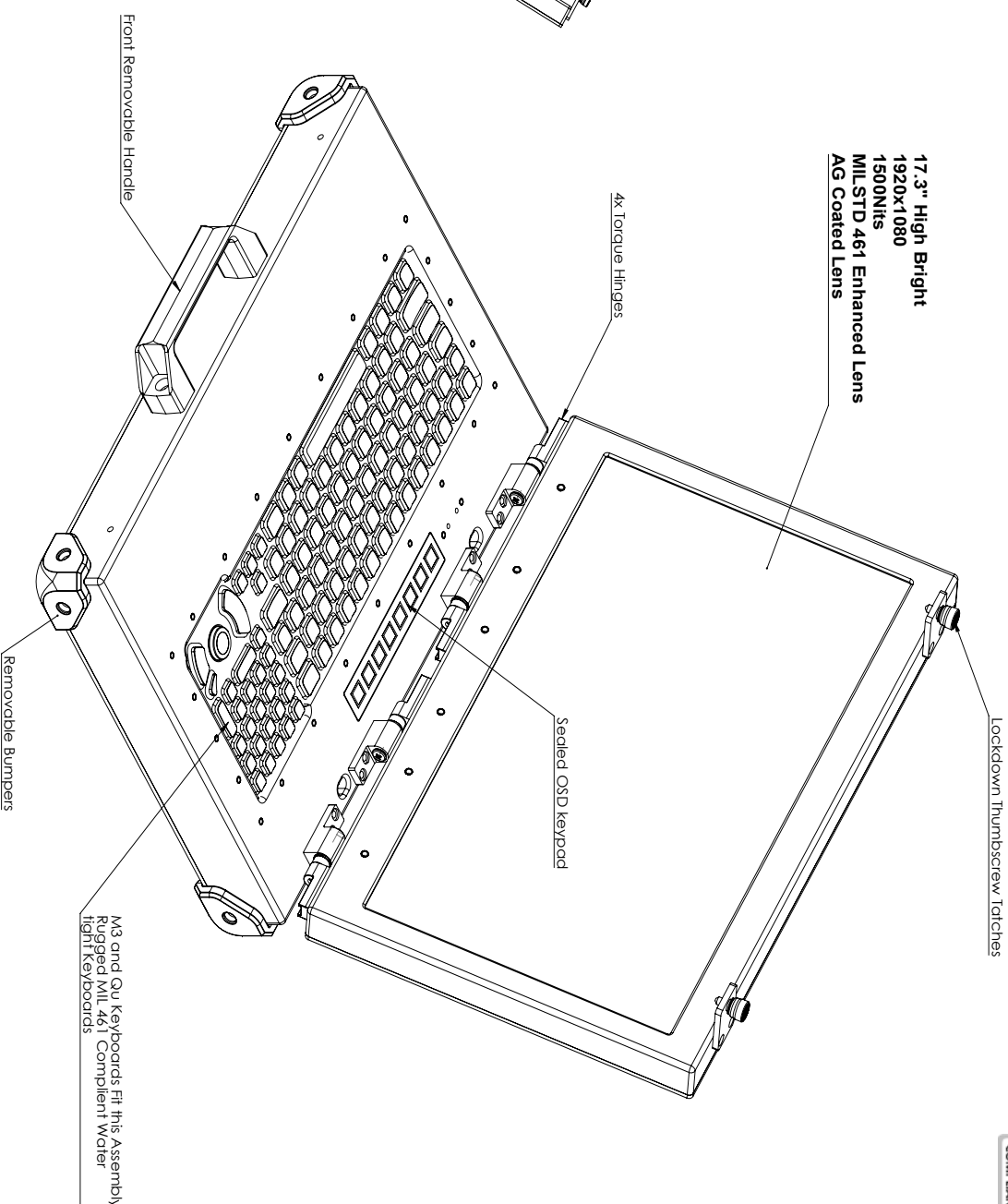
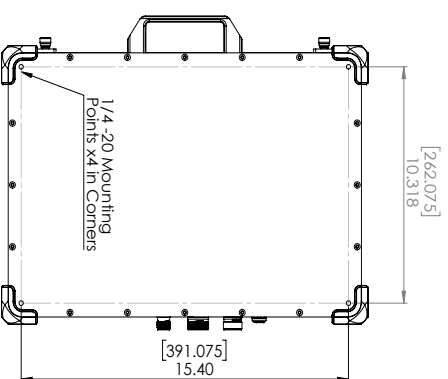
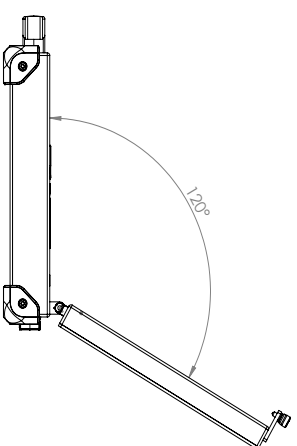
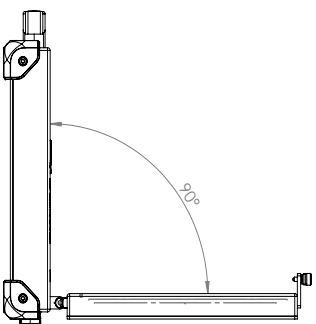
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# Mechanical Drawings

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.



17.3" High Bright  
1920x1080  
1500Nits  
MIL-STD 461 Enhanced Lens  
AG Coated Lens



PROPRIETARY & CONFIDENTIAL  
Zs2, INC. Dba: DITHD, OutdoorHDTV  
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OCEANSIDE, CA 92086  
760-599-9225 PHONE  
760-599-9225 FAX  
WWW.OUTDOORHDTV.COM

Military Graphics Platform KVM			
SIZE	PART NO.	REV	
C	MGPT73M1.xxxxx	xx	
SCALE: 1:5	SHEET 1 OF 2		



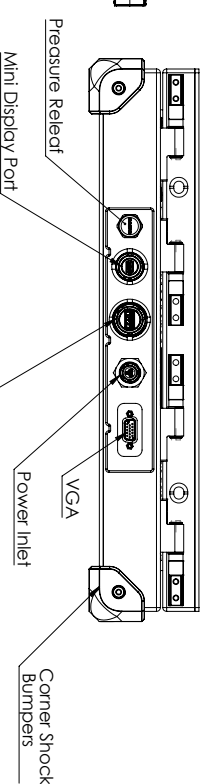
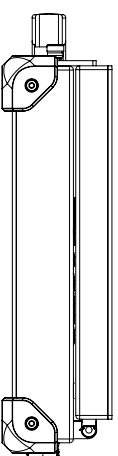
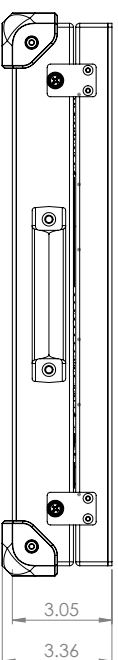
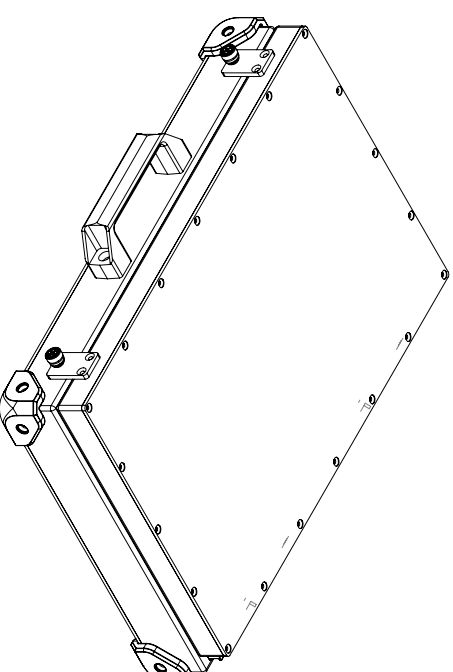
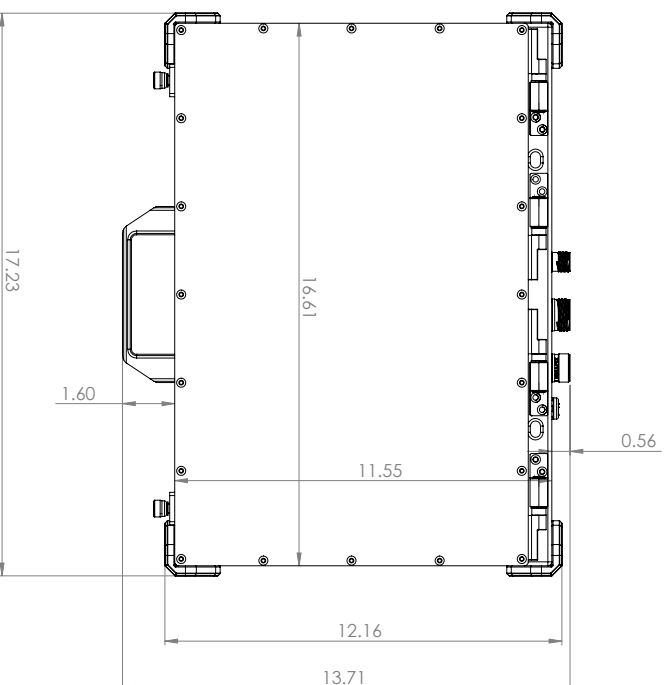
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HDMI is Also Available



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# 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 DESIGN TO MEET OPTIONS

**Operational Temperature Range:** MIL-STD-810F/G, -10C to +70C (\*Method and Procedures TBD)

**Storage Temperature:** MIL-STD-810F/G, -20C to +75C (\*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.



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## LCD Panel

### 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: -10°C to 70°C
- Storage Temp: -20°C to 70°C



### 173U2 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: 60ms
- Surface Finish: AG
- Color: 8bit (16.7M), 100% ADOBE RGB
- Operating Temp: -20°C to 70°C
- Storage Temp: -30°C to 80°C



## 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

## Keyboard Options



- **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



## Connector Options



\*Other Keyboards Available

## SPECIFICATIONS

- **Dimensions:** 17.23"W x 3.23"H x 13.71"D
- **Weight:** ~ 22 LBs (MGP173Mx)
- **Power Consumption:** 40W to 50W

Values are approximate and vary based on configuration



Base Series

MGP

Military  
Graphics  
Platform

Display Size  
& Enhancement

173M1

173M1, 173M4

Project Number

XXXXX

AB0001

Revision

XX

00

► Custom Options Available On All DITHD Models



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