

MIL SPEC MONITOR 8.4" TFT LCD DISPLAY COMPOSITE VIDEO INPUT. MODEL (DMM8400V)



iTech Mil Spec Monitor (DMM) is a ruggedized LCD display, designed to operate under the most extreme environments such as high performance jet aircraft, off-road and tracked vehicles, and marine and submarine vessels. The ruggedized displays are capable of operating in environments with extended temperature options, extreme shock and vibration, explosive atmosphere, NVIS, high altitude avionics, or marine and submarine environments.

Housed in a milled billet aluminum case, the DMM is light weight and watertight, with a fully sealed, military grade connector. Front-mounted controls and various mounting options makes the monitor user-friendly. The DMM is fully sunlight readable and MIL-STD-3009 making it viewable under any lighting conditions.

Standard Features

- Auto Sensing NTSC/PAL
- (3) Composite Video Input
- (1) Composite Video Input
- 8.4" TFT AM LCD SVGA (800 x 600)
- Sunlight Readable
- Transflective Enhancement
- Antireflective/Antiglare Surface Treatments
- Tactile Button OSD User Interface (MIL-PRF-22885; 1 million+ actuations)
- Milled AL Case, sealed to IP67 / NEMA 6
- Military Grade Sealed Connectors
- Wide Range Input (8-36 VDC)
- Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity
- 20 Watts Maximum Power Consumption

Optional Features

- (1) S-Video Input
- (1) Composite Video Input
- Analog Resistive Touch Screen
- LED Backlight (1000:1 Dimming Ratio)
- Night Vision Goggle Filter (MIL-STD-3009)
- Flush Mount Bezel, IP67 Sealed
- Panel Mount, IP67 Sealed
- 19" Rack Mount



i-Tech Company LLC

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TECHNICAL SPECIFICATIONS	
Display	8.4" TFT AM, SVGA, LCD, 16M Colors
Sunlight Readable*	1,100 nits (optional LED)
Contrast Ratio	500:1
Dimming Ratio	100:1 1000:1 (optional LED)
Viewing Angle	160° (H) x 140 (V)
Video Input	NTSC/PAL (B,D,G,I,K)
Mounting	Flush, Panel, 19" Rack or RAM Mount
Power Conditioning	Internal Short Circuit Protection Load Dump Protection Over Voltage Protection Reverse Polarity Protection
Power Consumption	20 Watts Max
ENVIRONMENTAL SPECIFICATIONS	
IP Rating	IP67 (NEMA 6 Submersible)
Operating Temperature	-10°C to 70°C (14°F to 158°F) -30°C to 70°C (-22°F to 158°F) (optional LED)
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Humidity	0-100%
Shock	50 G
Altitude	45,000 ft.
MILITARY SPECIFICATIONS	
MIL-STD-461E	EMI
MIL-STD-810F	Method 501.4 II-Op; High Temperature
MIL-STD-810F	Method 502.4 II-Op; Low Temperature
MIL-STD-810F	Method 514.5; Procedure I, General Vibration
MIL-STD-810F	Method 516.5; Procedure I, Functional Shock
MIL-STD-1275D	Wide Range DC Power Input 8-36 VDC (12, 24, 28 VDC nominal)
MIL-STD-3009*	NVIS Compliance
MIL-PRF-22885G	Sunlight Readability for Buttons
MIL-PRF-22750F	Housing Milled Aluminum, Black Finish
MIL-DTL-38999	Connector (Qualified)
MIL-DTL-26482	Connector (Qualified)



The DMMR (MIL-SPEC Monitor) Series Military Grade Sealed Connectors



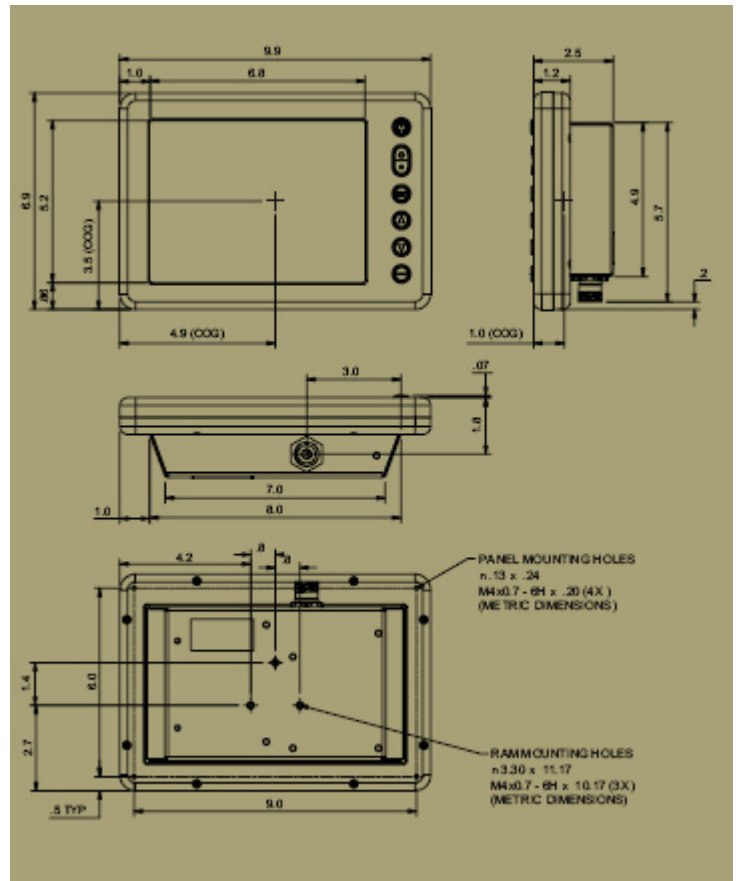
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DIMENSIONS	MILLIMETERS	INCHES
Height	175 mm	6.90"
Width	252 mm	9.90"
Depth (Main Case)	30 mm	1.20"
Overall Depth	64 mm	2.50"
Weight	4.3 lbs ± .25 lbs 2 kg ± .1 kg	

STANDARD MIL-DTL-38999 SERIES III 13 PIN CONNECTOR	
PIN	SIGNAL
1	NTCS/PAL VIDEO SIGNAL
2	NTCS/PAL VIDEO GND
3	NTCS/PAL VIDEO SIGNAL
4	NTCS/PAL VIDEO GND
5	NTCS/PAL VIDEO SIGNAL
6	NTCS/PAL VIDEO GND
7	+28 VDC
8	+28 VDC
9	+28 VDC GND
10	+28 VDC GND
11	CHASSIS
12	VIDEO OUT SIGNAL
13	VIDEO OUT GND

S-VIDEO OPTION MIL-DTL-38999 SERIES III 13 PIN CONNECTOR	
PIN	SIGNAL
1	S- VIDEO C SIGNAL
2	S- VIDEO C SIGNAL GND
3	S- VIDEO Y SIGNAL
4	S- VIDEO Y SIGNAL GND
5	NTCS/PAL VIDEO SIGNAL
6	NTCS/PAL VIDEO GND
7	+28 VDC
8	+28 VDC
9	+28 VDC GND
10	+28 VDC GND
11	CHASSIS
12	NC (NO CONNECTION)
13	NC (NO CONNECTION)



Please note cables are not included

* iTech integrated NVIS options either produce near zero color shift or slight color shift for full sunlight readability. The integrated NVIS is MIL-STD-3009 compliant, and can be viewed with NVGs (Night Vision Goggles) through the entire brightness range. Dimming is not necessary to meet MIL-STD-3009, Class B NVIS requirements. Brightness levels will be reduced with the NVIS option.



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