

# Rugged Military LCD

8.4" Rugged Display, RGB Input, XGA 1024 x 768, LED Backlight 1000nits, Resistive Touch Screen (RS-232 Interface) (resistive touch screen reduces this by about 10%) MIL-STD Amphenol Connectors, EMI-461 Compliance, IP67 Sealed, 12-36Vdc

*Note: NVIS Green/Red feature which allows the user to change the color output to a monochrome red or monochrome green mode. Users have reported that this is compatible with night vision devices but it will not pass MIL-STD-3009.*



## Model: DMM8400RX-TR-NVIS

On today's digital battlefield, rugged hardware must be designed to operate in any environment. iTech designs and manufactures highly reliable military COTS displays that meet and exceed key military specifications including MIL-STD-461, MIL-STD-810 and MIL-STD-1275.

### STANDARD FEATURES

- (1) Analog RGB Video Input
- XGA Resolution (1024x768)
- Auto Scaling VGA to UXGA
- MIL-C Connectors\*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure
- Tactile Buttons
- 8.4" TFT AM LCD
- MIL-STD-461, 810, 1275 Compliant



### OPTIONAL FEATURES

- Analog Resistive Touch Screen
- Night Vision Compatible – Monochrome Red/Green
- NVIS MIL-STD-3009 Class B White Compliant



\* - Please note cables not included.

### STANDARD



Panel Mount



RAM Mount

### OPTIONS



Flush Mount



RACK Mount



## SPECIFICATIONS

<b>LCD Size</b>	<b>Resolution</b>	<b>Nits</b>	<b>Viewing Angle</b>	<b>Contrast Ratio</b>	<b>Maximum Power Consumption</b>
8.4" TFT AM LCD	XGA (1024x768)	1000 nits	160° (H) x 160° (V)	900:1	20 Watts

### TECHNICAL SPECIFICATIONS

<b>Display</b>	8-bit Color, 16,777,216 Colors. TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display)
<b>Dimming Ratio</b>	3000:1
<b>Video Input</b>	VGA
<b>Connectors*</b>	MIL-C Connectors
<b>Housing</b>	Milled AL, Black Hard Anodized
<b>Mounting</b>	Flush, Panel, Rack or RAM; Quoted individually.
<b>Wide Range DC Power Input</b>	10-36 VDC (12,24,28 VDC nominal)
<b>Power Conditioning</b>	Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity

### ENVIRONMENTAL SPECIFICATIONS

<b>IP Rating</b>	IP67 (NEMA 6 Submersible)
<b>Operating Temperature</b>	-40°C to 71°C (-40°F to 160°F); (-20°C (-4°F) with Touchscreen Option)
<b>Storage Temperature</b>	-51°C to 71°C (-60°F to 160°F)
<b>Humidity</b>	0-100%
<b>Altitude</b>	45,000 ft.

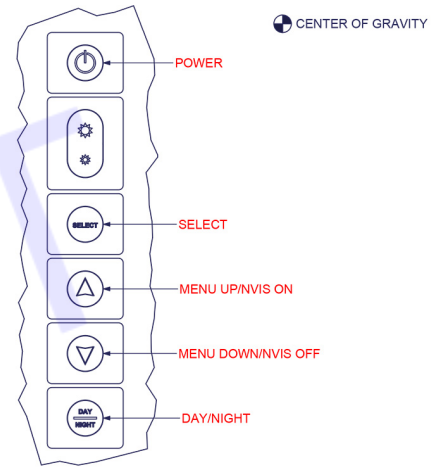
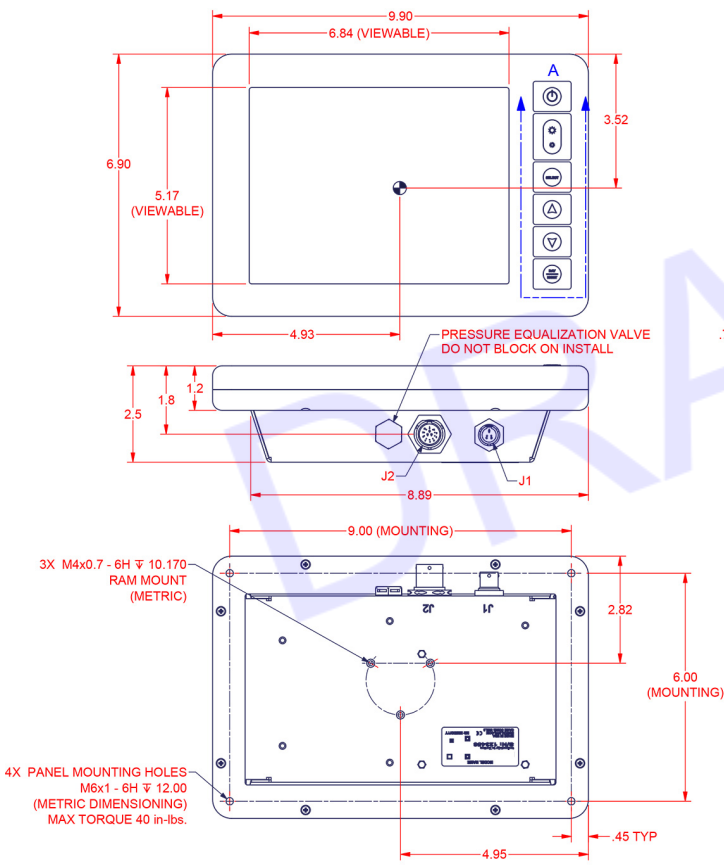
### MILITARY SPECIFICATIONS

<b>MIL-STD-461</b>	EMI	<b>MIL-STD-810</b>	Method 512; Immersion
<b>MIL-STD-704</b>	Aircraft Power Requirements	<b>MIL-STD-810</b>	Method 513; Acceleration
<b>MIL-STD-810</b>	Method 500; Altitude	<b>MIL-STD-810</b>	Method 514; Procedure I, II, V, VI; General Vibration
<b>MIL-STD-810</b>	Method 501; I & II; High Temperature	<b>MIL-STD-810</b>	Method 516; Procedure I, Functional Shock
<b>MIL-STD-810</b>	Method 502; I & II; Low Temperature	<b>MIL-STD-810</b>	Method 520; Temp, Humidity, Vibe and Altitude
<b>MIL-STD-810</b>	Method 503; Temperature Shock	<b>MIL-STD-810</b>	Method 523; Vibro-Acoustic/Temp
<b>MIL-STD-810</b>	Method 505; Solar Radiation	<b>MIL-STD-1275</b>	Vehicle Power Requirements
<b>MIL-STD-810</b>	Method 506; Rain	<b>MIL-STD-1472</b>	Thermal Contact Hazard
<b>MIL-STD-810</b>	Method 507; Humidity	<b>MIL-STD-3009</b>	NVIS Compatible (Optional)
<b>MIL-STD-810</b>	Method 508; Fungus	<b>MIL-PRF-22885</b>	Sunlight Readability for Push Buttons
<b>MIL-STD-810</b>	Method 509; Salt/Fog	<b>MIL-A-8625</b>	Standard Finish, Type III, Class 1 & 2
<b>MIL-STD-810</b>	Method 510; Blowing Sand and Dust	<b>MIL-PRF-22750</b>	Painted Finish, Optional, Minimum Quantity Required

*\*Specifications subject to change without notice, not responsible for typographical errors.*

# MECHANICAL DRAWINGS

This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.



DETAIL A  
USER INTERFACE BUTTONS

RGB 13 PIN RECEPTACLE MIL-DTL-38999 SERIES I CONNECTOR	
PIN	SIGNAL
1	Red Video Signal
2	Red Video Ground
3	Green Video Signal
4	Green Video Ground
5	Blue Video Signal
6	Blue Video Ground
7	H-SNYC
8	V-SNYC
9	H/V SYNC Ground
10	Optional Touch (USB+/RS-232 RX)
11	Optional Touch (USB-/RS-232 TX)
12	Digital Ground
13	Optional (Ring Tone Indicator)

POWER 3 PIN RECEPTACLE MIL-DTL-26482 SERIES I CONNECTOR	
PIN	SIGNAL
A	28 VOLT DC
B	28 VOLT RTN
C	N/C

Vendor p/n#	71-533721-33P (3-pin power)	Vendor p/n#	88-569722-35P (Video Only)
Mate #	PT06E833SSR (141247)	Mate #	MS27467E11B35S (141238)
Strain #	Included	Strain #	M85049/49-2-10W (141248)
Cable Assy#	900222	Cable Assy#	900230

Drawing No.: DMM8400RX-TR-NVIS-04042023-V1