Rugged Military LCD

Rugged Mil Spec Monitor 8.4" LCD Monitor (3) Composite Video Input, (1) Composite Video Output, 800 x 600, sealed to IP67 /NEMA 6 Standard, (8-36 VDC),-10C to 70C (14F to 158F). External cables are not included, (Pin out will be provided)

Model: DMM8400AV

STANDARD FEATURES

- Composite Video Inputs (3), PIP Capable
- Auto Sensing NTSC, PAL Formats
- MIL-C Connectors*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Refective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure (Sealed Connectors*)
- Bezel Keys
- 8.4" TFT AMLCD
- MIL-STD-461, 810, 1275

OPTIONAL FEATURES

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

* Cables not included

MOUNT OPTIONS

Panel Mount

RAM Mount

Flush Mount

RACK Mount

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Modified: 08-31-2023

SPECIFICATIONS

LCD SIZE	RESOLUTION	LUMINANCE	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
8.4" TFT AMLCD	SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	20 Watts

TECHNICAL SPECIFICATIONS	
Display	8-bit color, 16,777,216 colors. TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display)
Dimming Ratio	3000:1
Video Inputs	Composite Video Inputs (3), Auto Sensing NTSC and PAL-BGHID Formats
Connectors*	MIL-C Connectors
Housing	Milled Aluminum, Black Hard Anodized
Mount Options	Flush, Panel, Rack or RAM; Quoted individually.
Wide Range DC Power Input†	8-36 VDC (12, 24, 28 VDC nominal)
Power Conditioning	Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity
ENVIRONMENTAL SPECIFICATIONS	
IP Rating	IP67 (NEMA 6 Submersible)
Operating Temperature	-10°C to 70°C (14°F to 158°F
Storage Temperature	-51°C to 71°C (-60°F to 160°F)
Humidity	0-100%
Altitude	45,000 ft.

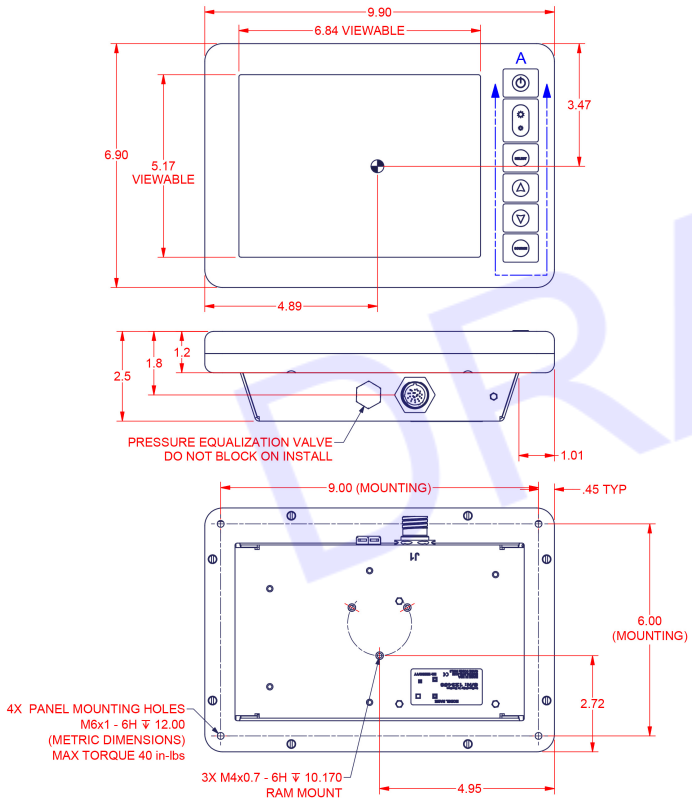
MILITARY SPECIFICATIONS			
MIL-STD-461	EMI	**MIL-STD-810**	Method 512; Immersion
MIL-STD-704	Aircraft Power Requirements	**MIL-STD-810**	Method 513; Acceleration
MIL-STD-810	Method 500; Altitude	**MIL-STD-810**	Method 514; Procedure I, II, V, VI; General Vibration
MIL-STD-810	Method 501; I & II; High Temperature	**MIL-STD-810**	Method 516; Procedure I, Functional Shock
MIL-STD-810	Method 502; I & II; Low Temperature	**MIL-STD-810**	Method 520; Temp, Humidity, Vibe and Altitude
MIL-STD-810	Method 503; Temperature Shock	**MIL-STD-810**	Method 523; Vibro-Acoustic/Temp
MIL-STD-810	Method 505; Solar Radiation	**MIL-STD-1275**	Vehicle Power Requirements
MIL-STD-810	Method 506; Rain	**MIL-STD-1472**	Thermal Contact Hazard
MIL-STD-810	Method 507; Humidity	**MIL-STD-3009**	NVIS Compatible (Optional)
MIL-STD-810	Method 508; Fungus	**MIL-PRF-22885**	Sunlight Readability for Push Buttons
MIL-STD-810	Method 509; Salt/Fog	**MIL-A-8625**	Standard Finish, Type III, Class 1 & 2
MIL-STD-810	Method 510; Blowing Sand and Dust	**MIL-PRF-22750**	Painted Finish, Optional, Minimum Quantity Required
MIL-STD-810	Method 511; Explosive Atmosphere	**MIL-DTL-26482**	**(and 38999)** Connector, Qualifed

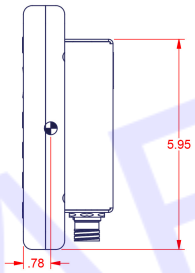
***** - Cables not included.
† - Power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

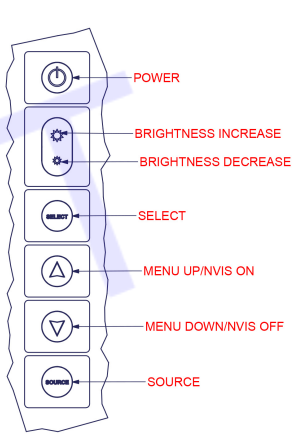
Specifications subject to change without notice, not responsible for typographical errors.

MECHANICAL DRAWINGS

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







DETAIL A
USER INTERFACE BUTTONS

CONNECTOR PART NUMBERS CAN VARY BETWEEN SPECIFIC VENDORS. ALTERNATE CONNECTOR PART NUMBERS SHALL MEET SPECIFIED MIL STANDARDS AS DOCUMENTED.

Standard	
VIDEO 13 PIN RECEPTACLE MIL-DTL-38999 SERIES III CONNECTOR	
PIN	**SIGNAL**
1	NTSC/PAL Video Signal
2	NTSC/PAL Video Ground
3	NTSC/PAL Video Signal
4	NTSC/PAL Video Ground
5	NTSC/PAL Video Signal
6	NTSC/PAL Video Ground
7	+28 VDC
8	+28 VDC
9	+28 VDC Ground
10	+28 VDC Ground
11	CHASSIS (OPTIONAL)
12	Video Out Signal
13	Video Out Ground
Vendor p/n#	91-569782-35P
Mate #	D38999/26FB35SN (141252)
Strain #	M85049/38-11N (141253)
Cable Assy#	900231

S-Video Option	
VIDEO 13 PIN RECEPTACLE MIL-DTL-38999 SERIES III CONNECTOR	
PIN	**SIGNAL**
1	S-Video C Signal
2	S-Video C Signal Ground
3	S-Video Y Signal
4	S-Video Y Signal Ground
5	NTSC/PAL Video Signal
6	NTSC/PAL Video Ground
7	+28 VDC
8	+28 VDC
9	+28 VDC Ground
10	+28 VDC Ground
11	CHASSIS (OPTIONAL)
12	NC (NO CONNECTION)
13	NC (NO CONNECTION)
Vendor p/n#	91-569782-35P
Mate #	D38999/26FB35SN (141252)
Strain #	M85049/38-11N (141253)
Cable Assy#	900232

Drawing No.: DMM8400AV-08312023-V1