

Rugged Military LCD

RUGGED MIL SPEC MONITOR

12.1" LCD Monitor (3) Composite Video Input, (1) VGA Input, 600nits 800x600
Sealed to IP67 /NEMA 6 Standard, (10-36 VDC), -40°C to 71°C (-40°F to 160°F)
External cables are not included (Pin out will be provided)

Note: All Military grade related units are NCNR. Non-Cancellable and Non-Returnable



Model: DMM1200R-AV

STANDARD FEATURES

- 12.1" TFT AMLCD Display with SVGA Resolution (800 × 600)
- Three Composite Video Inputs with PIP (Picture-in-Picture) capability
- One VGA Input for additional video connectivity
- Auto-sensing NTSC and PAL video format compatibility
- LED Backlight with up to 3000:1 dimming ratio
- Enhanced sunlight readability with anti-reflective and anti-glare surface treatments
- Bezel control keys for easy front-panel operation
- MIL-C circular connectors* for rugged connectivity
- IP67 / NEMA 6 sealed enclosure with sealed connectors*
- Designed to meet MIL-STD-461, MIL-STD-810, and MIL-STD-1275 standards



OPTIONAL FEATURES

- Resistive Touch Screen (USB or RS232 Interface)
- XGA Display Resolution (1024x768)
- Night Vision Compatible – Monochrome Red/Green
- NVIS MIL-STD-3009 Class B White Compliant



MOUNT OPTIONS



Panel Mount



RAM Mount



Flush Mount



RACK Mount

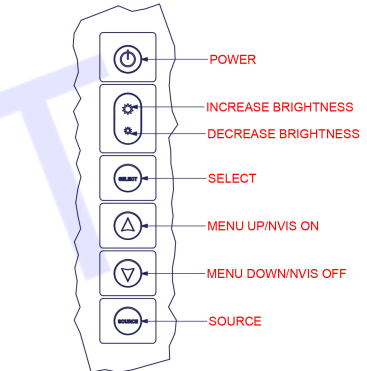
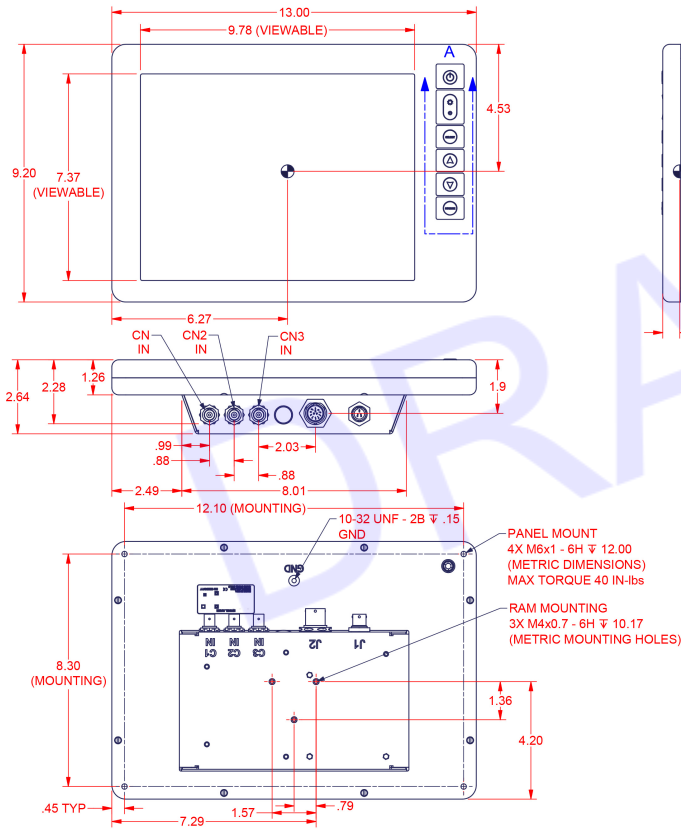
SPECIFICATIONS

LCD Size	Resolution	Nits	Viewing Angle	Contrast Ratio	Maximum Power Consumption
12.1" TFT AM LCD	SVGA (800x600)	600 nits	170° (H) x 170° (V)	750:1	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 Input	VGA Input(1); Composite Video Inputs (3), Auto Sensing NTSC and PAL-BGHID Formats				
Connectors*	MIL-C Connectors				
Housing	Milled AL, Black Hard Anodized				
Mounting	Flush, Panel, Rack or RAM; Quoted individually.				
Wide Range DC Power Input	10-36 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	-40°C to 71°C (-40°F to 160°F); (-20°C (-4°F) with Touchscreen Option)				
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, Qualified		

MECHANICAL DRAWINGS

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

CENTER OF GRAVITY



3 VIDEO IN VIA BNC	
C1, C2, C3	SIGNAL
PIN	SIGNAL
CENTER	VID_IN
SHELL	VID_GND
Cable Assy#	900399

POWER 3 PIN RECEPTACLE MIL-DTL-26482 SERIES I CONNECTOR	
J1	SIGNAL
A	28 VOLT DC
B	28 VOLT RTN
C	N/C
Vendor pin#	71-533721-33P (3-pin power)
Mate #	PT06E833SSR (141247)
Strain #	Included
Cable Assy#	900222

RGB 13 PIN RECEPTACLE MIL-DTL-38999 SERIES I CONNECTOR	
J2	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)
Vendor pin#	88-569722-35P (Video Only)
Mate #	MS27467E11B35S (141238)
Strain #	M85049/49-2-10W (141248)
Cable Assy#	900230

Drawing No.: DMM1200R-AV-03062026-V1