

MSM2D

MIL SPEC MONITOR - DVI INPUT

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

STANDARD FEATURES

- (1) DVI-D Input
- SVGA Resolution (800x600)
- 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", 10.4", 12.1" and 15.0" TFT AM LCD Sizes
- MIL-STD-461, 810, 1275 Compliant

OPTIONAL FEATURES

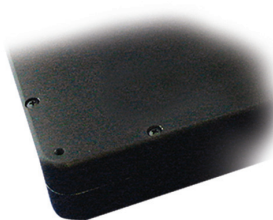
- Analog Resistive Touch Screen
- XGA Display Resolution (1024x768)
- NVIS MIL-STD-3009 Class B White Compliant
- Night Vision Compatible – Monochrome Red/Green



* Cables not included

STANDARD

OPTIONS



Panel Mount



RAM Mount
(#220901 or #220916)



Flush Mount



Rack Mount



LCD Size		Resolution	Nits	Viewing Angle	Contrast Ratio	Maximum Power Consumption
8.4” TFT AM LCD		SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	20 Watts
10.4” TFT AM LCD		SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	20 Watts
10.4” TFT AM LCD (Optional)		XGA (1024x768)	1,000 nits	160° (H) x 130° (V)	700:1	20 Watts
12.1” TFT AM LCD		SVGA (800x600)	550 nits	160° (H) x 140° (V)	600:1	20 Watts
12.1” TFT AM LCD (Optional)		XGA (1024x768)	1,000 nits	160° (H) x 140° (V)	600:1	20 Watts
15.0" TFT AM LCD		XGA (1024x768)	800 nits	160° (H) x 140° (V)	800:1	40 Watts
Technical Specifications						
Display		8-bit color, 16,777,216 colors				
Dimming Ratio		3000:1				
Video Input		DVI-D				
Connectors*		MIL-C Connectors				
Housing		Milled AL, Black Hard Anodized				
Mounting		Flush, Panel, Rack or RAM Mount				
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 Touch Screen 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		

* - Cables not included

† - The 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.

ON-GOING PRODUCT DEVELOPMENT MAY NECESSITATE DESIGN AND SPECIFICATION CHANGES WITHOUT NOTICE.