

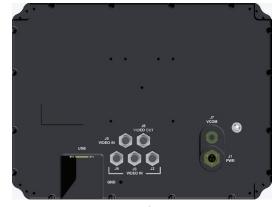
PSM

PROGRAMMABLE SURVEILLANCE DISPLAY SERIES

The Programmable Surveillance Monitor (PSM) series of rugged MIL SPEC monitors includes an integrated Digital Video Recorder (DVR), with capable of real-time recording and playback. The full-frame rate video, with H.264/MPEG-4 compression and embedded time stamping up to 1/100th of a second, is downloadable via USB port. These highly ruggedized displays offer ASCII or HEX code (via RS-232 or RS-422) protocol for control of external systems and/or internal display features through programmable bezel soft keys. Multiple mounting options allow for seamless integration within any rugged system. For protected operations that require data to be secured, the PSM-RD series has a removable mSATA SSD.







Cables not included

STANDARD FEATURES

- (20) Tactile Programmable Buttons
 - Internal and/ or External Use
- (4) RS-170 Inputs; (1) RS-170 Output
- (1) USB Connector Download Port
- PIP/POP/Quad Screen Viewing Capability
- SVGA Resolution (800x600)
- Auto Sensing NTSC/PAL
- MIL-C Connectors*
- LED Backlight (Extreme 3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- IP67/NEMA 6 Enclosure
- 8.4", 10.4", 12.1" and 15.0" TFT AM LCD

DVR FEATURES

- NTSC: (up to 32 Hours Record Time (approx. 1hr/GB)
- PAL: (up to 16 Hours Record Time (approx. 1hr/2GB)
- Records 24-bit High Frame-rate Video (30 fps)
- H.264/MPEG-4 Data Compression
- USB Download Port
- Time Stamping (1/100th of a Second)
- Onscreen Playback; Snapshot
- Video Thumbnail View File Management
- FF, RW, Pause, Play, Record, Stop Bezel Buttons
- Secure Erase
- Picture-Over-Picture (POP) Mode recording not available

PROGRAMMABLE BUTTON INTERFACE FEATURES

Integrated Button Assignment/Naming Capability

OPTIONAL FEATURES

- 64GB or 128GB DVR Storage
- Removable mSATA SSD
- Continuous Record
- NVIS MIL-STD-3009 Class B White Compliant
- Night Vision Compatible Monochrome Red/ Green

MOUNT OPTIONS

(Quoted individually)



Corner Mount









Panel Mount RAM Mount

Side Mount

VESA Mount



LCD Size		Resolution	Nits	Viewi	ng Angle	Contrast Ratio	Max Power Consumption
8.4" TFT AM L	CD	SVGA (800x600)	800		x 160° (V)	900:1	≤ 30 Watts
10.4" TFT AM	LCD	SVGA (800x600)	800	. ,	x 160° (V)	900:1	≤ 40 Watts
12.1" TFT AM LCD		SVGA (800x600)	550	160° (H)	x 140° (V)	600:1	≤ 40 Watts
15.0" TFT AM LCD		XGA (1024x768)	800	160° (H)	x 140° (V)	800:1	≤ 40 Watts
Digital Video Recorder (DVR) Specifications							
Maximum Red	cording Capacity	Approximately 1hr/GB. Up to 32 hours (32GB); Up to 64 hours (64GB); Up to 128 hours (128 GB)					
Video Compression		H.264/MPEG-4					
Time Stamping		1/100th of a second					
USB Downloa	ad Port	Appears as a remote HDD when connected to a PC					
Technical Specifications							
Display		8-bit color, 16,777,216 colors					
Dimming Rati	0	3000:1					
Video Inputs		4) RS-170; NTSC or PAL (B, D, G, I, K)					
Video Outputs	3	(1) RS-170					
Housing		Milled Aluminum, Black Hard Anodized					
Mounting	Corner, Panel, RAM, 75mm VESA Mount, Side Mount (12.1"-15.0" sizes)						es)
Wide Range DC Power Input† Power Conditioning		10-36 VDC (12,24,28 VDC nominal) Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity					
						Neverse Folding	
Environmental Specifications ID67 (NEMA 6 Submaraible)							
IP Rating Operating Temperature		IP67 (NEMA 6 Submersible) -40°C to 71°C (-40°F to 160°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-ST	D-810	Method 512; Immersion		
MIL-STD-704	Aircraft Power Requirements		MIL-ST	D-810	Method 513; Acceleration		
MIL-STD-810	Method 500; Altitude		MIL-ST	D-810	Method 514; Procedure I, II, V, VI; General Vibration		
MIL-STD-810	Method 501; I & II; High Temperature		MIL-ST	D-810	Method 516; Procedure I, Functional Shock		
MIL-STD-810	Method 502; I & II; Low Temperature		MIL-ST	D-810	Method 520; Temp, Humidity, Vibe and Altitude		
MIL-STD-810	Method 503; Temperature Shock		MIL-ST	D-1275	Vehicle Power Requirements		
MIL-STD-810	Method 505; Solar Radiation		MIL-ST	D-1472	Thermal Contact Hazard		
MIL-STD-810	Method 506; Rain		MIL-ST	D-3009	NVIS Compatible (Optional)		
MIL-STD-810	Method 507; Humidity		MIL-PR	F-22885	Sunlight Readability for Push Buttons		
MIL-STD-810	Method 508; Fungus		MIL-A-8	625	Standard Finish, Type III, Class 1 & 2		
MIL-STD-810	Method 509; Salt/Fog		MIL-PR	F-22750	Painted Finish, Optional, Minimum Quantity Required		mum Quantity Required
MIL-STD-810	Method 510; Blowing Sand and Dust		MIL-DT	L-26482	Connector, Qualified		
MIL-STD-810	Method 511; Explosiv	MIL-DT	L-38999	Connector, Qualified			
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Cables not included

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



[†] 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