

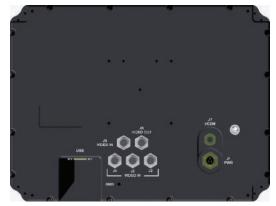
PSM

PROGRAMMABLE SURVEILLANCE MONITOR 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 RS232 or RS422 protocol) for control of external systems and/or internal display features through programmable bezel 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 SSD.







Cables not included

STANDARD FEATURES

- Programmable Bezel Keys (20), RS232/RS422
 - Internal and/ or External Use
- Composite Video Inputs (4); Composite Video Output (1)
- Auto Sensing NTSC, PAL Formats
- USB Connector Download Port (1)
- PIP/POP/Quad Screen Viewing Capability
- SVGA Resolution (800x600)
- MIL-C Connectors*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- IP67/NEMA 6 Enclosure (Sealed Connectors*)
- 8.4", 10.4", 12.1" and 15.0" TFT AMLCD

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 KEY INTERFACE FEATURES

■ Integrated Bezel Key Assignment/Naming Capability

OPTIONAL FEATURES

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

MOUNT OPTIONS

(Quoted individually)











Corner

Panel

RAM

Side

VESA



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	30 Watts	
10.4" TFT AMLCD		SVGA (800x600)	800 nits	160° (H) x 160° (V)	900:1	40 Watts	
12.1" TFT AMLCD		SVGA (800x600)	550 nits	160° (H) x 140° (V)	600:1	40 Watts	
15.0" TFT AMLCD		XGA (1024x768)	800 nits	160° (H) x 140° (V)	800:1	40 Watts	
DIGITAL VIDEO RECORDER (DVR) SPECIFICATIONS							
Maximum Recording 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 Download Port		Appears as a remote HDD when connected to a PC					
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 (4); Auto Sensing NTSC and PAL-BGHID Formats					
Video Outputs	 S	Composite Video Output (1)					
Housing	Milled Aluminum, Black Hard Anodized						
Mount Option	S	Corner, Panel, RAM, VESA (75mm), Side; 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)					
Storage Temperature		-51°C to 71°C (-60°F to 160°F)					
Humidity		0-100%					
Altitude		45,000 ft.					
Military Speci	fications						
MIL-STD-461	EMI		MIL-STD-810	Method 512; Imm	Method 512; Immersion		
MIL-STD-704	Aircraft Power Requirements		MIL-STD-810	Method 513; Acce	Method 513; Acceleration		
MIL-STD-810	Method 500; Altitude		MIL-STD-810	Method 514; Prod	Method 514; Procedure I, II, V, VI; General Vibration		
MIL-STD-810	Method 501; I & II; High Temperature		MIL-STD-810	Method 516; Prod	Method 516; Procedure I, Functional Shock		
MIL-STD-810	Method 502; I & II; Low Temperature		MIL-STD-810	Method 520; Tem	Method 520; Temp, Humidity, Vibe and Altitude		
MIL-STD-810	Method 503; Temperature Shock		MIL-STD-1275	Vehicle Power Re	Vehicle Power Requirements		
MIL-STD-810	Method 505; Solar Radiation		MIL-STD-1472	Thermal Contact	Thermal Contact Hazard		
MIL-STD-810	Method 506; Rain		MIL-STD-3009	NVIS Compatible	NVIS Compatible (Optional)		
MIL-STD-810	Method 507; Humidity		MIL-PRF-2288	5 Sunlight Readabi	Sunlight Readability for Push Buttons		
MIL-STD-810	Method 508; Fungus		MIL-A-8625	Standard Finish,	Standard Finish, Type III, Class 1 & 2		
MIL-STD-810	Method 509; Salt/Fog		MIL-PRF-2275	Painted Finish, O	Painted Finish, Optional, Minimum Quantity Required		
MIL-STD-810	Method 510; Blowing Sand and Dust		MIL-DTL-2648	2 Connector, Qualif	Connector, Qualified		
MIL-STD-810	Method 511; Explosive Atmosphere		MIL-DTL-3899	9 Connector, Qualif	Connector, Qualified		
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^{* -} Cables not included.

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



PSM SERIES(Q)® 1/2022







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.