HDRM

1080p HIGH DEFINITION RUGGED MONITOR SERIES

Offering a ruggedized design, low-power consumption, and high brightness, the ultra-thin HDRM displays up to 1080p HD video during critical operations. The rugged HDRM monitor ensures complete optical performance and full reliability while providing a small footprint for small spaces. Programmable bezel keys allow full control of external systems or a custom interface of internal display features (video processing, picture layout, user interface preferences, and navigation shortcuts.) Multiple mounting options allow for seamless integration with-in any rugged system.

* Cables not included

STANDARD FEATURES

- SDI Input (1), 3G/HD/SD
  - SMPTE 424M/292M/259M
- SDI Output (1), 3G/HD/SD
  - SMPTE 424M/292M/259M
- HDMI Input (1)
- DVI-I Input (1)
- Composite Video Inputs (3), PIP Capable
- Composite Video Output (1)
- Auto Sensing NTSC, PAL Formats
- Up to 1080p30 High Definition Video
- MIL-C Power*
- LED Backlight (1000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure (Sealed Connectors*)
- User Programmable Bezel Keys (15), RS232
- 9.0", 12.1", 14.1" and 17.5" TFT AMLCD
- MIL-STD-461, 704, 810, 1275

OPTIONAL FEATURES

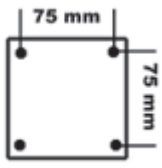
- Resistive Touch Screen (USB or RS232 Interface)
- Night Vision Compatible – Monochrome Red/Green
- NVIS MIL-STD-3009 Class B White Compliant

MOUNT OPTIONS *(Quoted individually)*

Panel

RAM

Side
(12.1" - 17".5 ONLY)



VESA

LCD SIZE	RESOLUTION	LUMINANCE	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
9.0" TFT AMLCD	WXGA (1280x768)	800 nits	170° (H) x 170° (V)	1000:1	30 Watts
12.1" TFT AMLCD	WXGA (1280x800)	450 nits	176° (H) x 176° (V)	1000:1	35 Watts
14.1" TFT AMLCD	WXGA (1280x800)	800 nits	160° (H) x 140° (V)	700:1	35 Watts
17.5" TFT AMLCD	WXGA (1280x768)	700 nits	160° (H) x 140° (V)	700:1	40 Watts

TECHNICAL SPECIFICATIONS	
Display	8-bit color, 16,777,216 colors. TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display)
Dimming Ratio	1000:1
Video Inputs/Outputs	HDMI (1), SDI (1) 3G/HD/SD, DVI-I (1), Composite Video (3); Auto Sensing NTSC and PAL-BGHID Formats; SDI (1) 3G/HD/SD, Composite Video (1)
Housing	Milled Aluminum, Black Hard Anodized
Mount Options	Panel, RAM, VESA (75mm), Side (12.1" - 17.5" only); 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	-46°C to 71°C (-51°F to 160°F); -20°C (-4°F) with Touch Option
Storage Temperature	-54°C to 71°C (-65°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-1275**	Vehicle Power Requirements
MIL-STD-810	Method 505; Solar Radiation	**MIL-STD-1472**	Thermal Contact Hazard
MIL-STD-810	Method 506; Rain	**MIL-STD-3009**	NVIS Compatible (Optional)
MIL-STD-810	Method 507; Humidity	**MIL-PRF-22885**	Sunlight Readability for Push Buttons
MIL-STD-810	Method 508; Fungus	**MIL-A-8625**	Standard Finish, Type III, Class 1 & 2
MIL-STD-810	Method 509; Salt/Fog	**MIL-PRF-22750**	Painted Finish, Optional, Minimum Quantity Required
MIL-STD-810	Method 510; Blowing Sand and Dust	**MIL-DTL-26482**	Connector, Qualified
MIL-STD-810	Method 511; Explosive Atmosphere	**MIL-DTL-38999**	Connector, Qualified

* - 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

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

DIGITAL SYSTEMS ENGINEERING, INC. (DSE)
17491 NORTH 93RD STREET
SCOTTSDALE, AZ 85255-6324| 480-515-1110 | WWW.DIGITALSYS.COM
technology in motion