

FHDRM-C23

Full High-Definition Multi-Function Digital Display

The FHDRM-C23 Multi-Function Display delivers exceptional high-definition performance tailored to today's defense applications. Featuring a 1920 x 1080 LCD and versatile digital and analog video inputs, this ruggedized monitor is engineered to withstand extreme environments while maintaining superior optical clarity. Its advanced user interface seamlessly integrates with mission-critical systems, enabling precise command and control. Designed to meet the rigorous demands of modern battlefield operations, the FHDRM-C23 delivers unparalleled situational awareness for crew, gunner, and command stations.



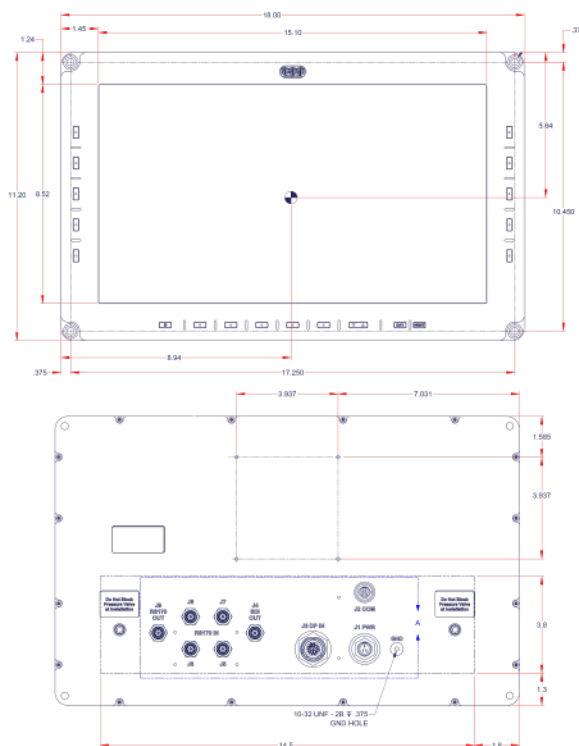
**1080p Video Support,
Full HD Resolution**



**Projected Capacitive,
10pt Multi-Touch Screen**



**MIL-STD 810,
461, & 1275 Design**



Key Product Features:

- 15.6" or 17.3" LCD
- DisplayPort 1.2 Video Input
- 1080p SDI Output – DisplayPort Conversion
- RS-170 NTSC/PAL Inputs (4) Output (1)
- Projected Capacitive Touch Screen
- Optically Bonded Screen
- 15 Programmable Bezel Keys – RS-232 Protocol
- Day/Night Functionality
- Customizable On-Screen Menus
- MIL-C Connectors
- Enhanced Sunlight Readability
- IP67/NEMA 6
- 12-36VDC Input

Mounting Options:

- Through Hole (4)
- VESA 100 Pattern

LCD SIZE	RESOLUTION	LUMINANCE	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
15.6" TFT AMLCD	1920 x 1080	400 Nits	178° (H) x 178° (V)	1000:1	35 Watts
17.3" TFT AMLCD	1920 x 1080	400 Nits	160° (H) x 140° (V)	600:1	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	DisplayPort 1.2 Input (1), RS-170 NTSC/PAL Inputs (4) Outputs (1), SDI Output (1) - DisplayPort Conversion
Housing	Milled Aluminum, Black Hard Anodized
Mount Options	Panel, VESA (75mm)
Wide Range DC Power Input	12-36 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 and Altitude	0-100%; 45,000 ft.
Power Conditioning	Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity

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

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About Digital Systems Engineering:

Since 1995, Digital Systems Engineering (DSE) has earned a global reputation for designing and manufacturing rugged electronics. Specializing in flat-panel LCD displays, advanced video processing (HDMI, SDI, DVI-D), and rugged computing, our expert team delivers customized solutions for military, defense industry, and commercial sectors. Based in Scottsdale, Arizona, DSE is a small business that proudly designs and manufactures its products in the USA.

**Ready to learn more
about rugged solutions?**

Contact our team: (480) 515-1110,
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