DVE10VR2

DRIVER'S VISION ENHANCER MONITOR with VGA, COMPOSITE VIDEO INPUTS

The DVE10VR2 Monitor is an advanced Driver's Vision Enhancer (DVE) display engineered to operate in military tactical-wheeled and tracked-vehicle operations. The DVE10VR2 is designed with Programmable Bezel Keys for ASCII or HEX code (via RS232) protocol for control of external systems.

* Cables not included

STANDARD FEATURES

- VGA Inputs (2)
- Composite Video Auxiliary Input (1)
- Composite Video Sensor Input (1)
- Composite Video Auxiliary Output (1)
- Auto Sensing NTSC, PAL Formats
- Digital Interface Input, RS422 (1)
- Programmable Bezel Keys (10) (ASCII or HEX Code via RS232; operates with VGA Inputs)
- SVGA Resolution (800x600)
- MIL-C Connectors*
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- 10.4" TFT AMLCD
- Mounts in Standard DVE Bracket

OPTIONAL FEATURES

- Resistive Touch Screen (USB or RS232 Interface) (operates with VGA Inputs)
- XGA Resolution (1024x768)
- NVIS MIL-STD-3009 Class B White Compliant

TECHNICAL SPECIFICATIONS	
Display	10.4” TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display), SVGA (800x600), 16,777,216 Colors
Luminance	800 nits
Contrast Ratio	900:1
Dimming Ratio	3000:1
Viewing Angle	160° (H) x 160° (V)
Video Inputs/Outputs	VGA IN (2); Composite Video IN (2); Auto Sensing NTSC and PAL-BGHID Formats; Composite Video Auxiliary OUT (1)
Connectors*	▪ MIL-C Connectors (A1J1, A1J2, A1J4, A1J7, A1J8) ▪ BNC (A1J3, A1J6)
Housing	Milled AL, Black Hard Anodized
Mount Options	Standard DVE Bracket; Backwards compatible with legacy DVE installations
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
Power Consumption	30 Watts Maximum
ENVIRONMENTAL SPECIFICATIONS	
IP Rating	IP67 (NEMA 6 Submersible)
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-50°C to 80°C (-58°F to 176°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.

† - 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.

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