

DVE10

DRIVER'S VISION ENHANCER DISPLAY with COMPOSITE VIDEO, RS422 INPUTS



Providing clear and precise thermal imagery, the DVE10 presents mission-critical information under rugged (shock and vibrate) and harsh weather conditions (fog, sand, dust or smoke). The DVE10 design is compliant to government-issued performance specification MIL-PRF-49256D and ICD A3325865, providing backwards compatibility with legacy DVE system configurations (cables, sensors and mounting). Whether the mission calls for a new vehicle system or a drop-in replacement, the DVE10 meets the requirements.

STANDARD FEATURES

- Composite Sensor Video Input (1); Compliant to ICD A3325865
- Composite AUX Video Input (1)
- Composite Video Output (1)
- Auto Sensing NTSC, PAL Formats
- Digital Interface Input, RS422 (2)
- 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
- IP67/NEMA 6 Enclosure (Sealed Connectors*)
- Mounts in Standard DVE Bracket



* Cables not included



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	Composite Video IN (2); Auto Sensing NTSC and PAL-BGHID Formats; Composite Video OUT (1)
Connectors*	<ul style="list-style-type: none"> ▪ MIL-C Connectors (A1J1, A1J2, A1J3, A1J5) ▪ 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 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-STD-810	Method 511; Explosive Atmosphere
MIL-STD-704	Aircraft Power Requirements	MIL-STD-810	Method 512; Immersion
MIL-STD-810	Method 500; Altitude	MIL-STD-810	Method 513; Acceleration
MIL-STD-810	Method 501; I & II; High Temperature	MIL-STD-810	Method 514; Procedure I, II, V, VI; General Vibration
MIL-STD-810	Method 502; I & II; Low Temperature	MIL-STD-810	Method 516; Procedure I, Functional Shock
MIL-STD-810	Method 503; Temperature Shock	MIL-STD-810	Method 520; Temp, Humidity, Vibe and Altitude
MIL-STD-810	Method 505; Solar Radiation	MIL-STD-810	Method 523; Vibro-Acoustic/Temp
MIL-STD-810	Method 506; Rain	MIL-STD-1275	Vehicle Power Requirements
MIL-STD-810	Method 507; Humidity	MIL-STD-1472	Thermal Contact Hazard
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	(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.

