

DuraVIS 3006

6.5" Rugged Flat Panel LCD Display

Features



General Features:

- 6.4" Color Active-Matrix TFT, VGA input
- Bright LED Backlight
- Front Panel Brightness, Power, and OSD Control
- Wide Operating Temp: -20°C to +60°C
- Qualified to MIL-STD-810F (Environmental)
- Qualified to MIL-STD-461E (EMI)

COLOR AMLCD: 6.5" Color Thin Film Transister (TFT) Liquid Crystal Display (LCD)

BACKLIGHT: 800 Nit Daylight Readable LED Backlight (Optimized for Wide Temperature Use and Dimming)

BRIGHTNESS / OSD CONTROL: 6 Pushbuttons for Power On/Off, Dim Mode, Color Balance, Video Brightness, Video Contrast, Backlight Intensity, 180-Degree Image Rotation, Factory Reset

EMI/EMC SHIELDING: Conductive O-Ring Gasket, ITO Coating; MIL-STD-461E Compliance for Radiated and Conducted Emissions and Susceptibility

PROTECTIVE WINDOW: Protective Acrylic Window w/ITO, Anti-Reflective and Hard Coatings over LCD

MIL-STD-810F Compliant: Qualified to MIL-STD-810F Environmental Standards for Thermal, Shock, Vibration, Humidity, Rapid Decompression, and Altitude

PLATFORM EXPERIENCE: P-8 Poseidon MMA: Legacy Generations of this Display are Deployed Onboard Boeing 737-900, T-38 Talon, AH/MH-6 Little Bird Helicopter, Nimitz-class Aircraft Carriers

Applications:

- Civil
- Military
- Aviation
- Ground Vehicle

The DuraVIS® 3006 is a rugged flat panel 6.5" TFT Liquid Crystal Display (LCD) offering daylight readability and a hardened mechanical design well suited for avionics, military, vehicular, and other high reliability applications. Ideal for space-constrained and retrofit applications, this extremely compact (1.5" thick) and lightweight (3lbs) unit is packaged in a hardened aluminum housing equipped with flexible mounting options and an anti-glare protective acrylic cover for impact protection and explosive decompression.

Featuring a high luminance (800 Nit) LED backlight for long lamp life (50,000 hours), direct sunlight readability and excellent dimming capabilities (down to 4%), the DuraVIS 3006 produces crisp, clear images in full VGA (640x480 pixel) resolution. The unit also boasts a wide 160-degree viewing angle, 600:1 contrast ratio, and six front bezel buttons to control brightness, power, and on-screen display (OSD) functions.

Qualified to MIL-STD-810F environmental and MIL-STD-461E EMI/EMC compliance standards, the DuraVIS 3006 monitor offers exceptional low-temperature operation (-20C) and resistance to shock and vibration profiles experienced by jet and rotary aircraft.

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Specifications

  	LIQUID CRYSTAL DISPLAY	<ul style="list-style-type: none"> • 6.5" (16.6cm) Diagonal a-SI TFT LCD with LED Backlight • Viewable Area (W x H): 5.2" (132.5mm) x 3.9" (99.4mm) • Acrylic Front Protective Window • Anti-Reflective Coated (MIL-C-14806 Compliant) • ITO Coated for Glare and EMI Control
	OPTICAL CHARACTERISTICS	<ul style="list-style-type: none"> • Luminance (Brightness): 800 cd/m² (nit) • Dimming: 30 Levels of Brightness Control • Resolution: 640 x 480 Pixels • Colors: 262,144 • Contrast: 600:1 (typ) • Response Time: 13ms (typ) • Viewing Angle: 160° (H), 140° (V)
	BACKLIGHT	LED Backlight (Bulb Life MTBF: 50,000 Hours)
	VIDEO INPUT	<ul style="list-style-type: none"> • VGA Analog Video Input • EVGA Differential Input (for Long Line Apps up to 500ft w/ Cat5)
	POWER	<ul style="list-style-type: none"> • Power Input: 14 to 35VDC (28VDC Nominal) • Compliance: MIL-STD-704E • Reverse Input Voltage Polarity Protection • Power Consumption: Estimated 27 Watts
	PHYSICAL	<ul style="list-style-type: none"> • Dimensions (W x H x D): 7.560" x 5.360" x 1.50" • Weight: Approx. 3 lbs (1.36kg) • Mounting: Rear Panel Hole Pattern (for Bolting Mounting Bracket) • Enclosure Material: Aluminum Alloy 6061-T6 • Finish: Black Anodize (MIL-A-8625, Type II, Class 2) • Connectors: Female DB-15 (VGA/EVGA Differential), Female DB-15 (Power) • Cooling: No Moving Parts. Passive.
	ENVIRONMENTAL	<p>Qualified to MIL-STD-810F:</p> <ul style="list-style-type: none"> • Operating Temperature: -20°C to +60°C (-4°F to +140°F) • Storage Temperature: -55°C to +71°C (-67°F to +160°F) • Operating Shock: 15g, 11ms, ½ Sine Wave, 3 Pos/Neg per Axis • Random Vibration: 0.022-G²/10-Hz to 0.0026-G²/2000-Hz • Altitude: Sea level to 41,000 feet (12,497 meters) @ 4°C to 50°C • Humidity: Operating: 6 to 95% RH; Non-Operating: 6 to 100% RH • Ingress: Fungus, Salt Fog, Sand, Dust, Volcanic Ash, Expl. Atmosphere • Rapid Decompression: -15K Ft to Sealevel, Sealevel to 41K Ft (12,497m) • Altitude: Sea level to 41,000 feet (12,497 meters) @ 4°C to 50°C
EMI/EMC	<p>Qualified to MIL-STD-461E:</p> <ul style="list-style-type: none"> • CE-101, Power Leads, 30Hz to 10kHz • CE-102, Power Leads, 10kHz to 10MHz • CS-101, Power Leads, 30Hz or 2x Power Freq. to 150kHz • CS-114, Bulk Cable Injection, 10kHz to 200MHz • RE-101, Magnetic Field, 30Hz to 100kHz • RE-102, Electric Field, 2MHz to 18GHz, 2 Configs., Fixed Wing < 25m • RS-103, Electric Field, 2MHz to 18GHz (10Khz to 200MHz and 800MHz to 18GHz at 200 V/m, and 200MHz to 800MHz at 20 V/m) 	

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