

BARRACUDA STANDALONE SOLAR/NVIS™ 7.0 CDDS

Military-grade, Environmentally Sealed, Sunlight Readable, NVIS-compatible, Custom 7.0" LCD Monitor

General Digital designed a custom version of our Barracuda environmentally-sealed monitor to meet customer-supplied specifications for fit, form and function. The display is used as a Counter Drone Defense System. Design of this complex solution required General Digital's mechanical, electrical, optical and software engineering expertise and integration skill sets.

- » Ruggedized 7.0" LCD, 1920 x 1080 resolution
- » Proprietary dual mode NVIS and sunlight readable backlights
- » Optically bonded ruggedized front overlay with AR coating
- » Configurable video, backlight and keypad controllers
- » Field programmable controller firmware
- » Wide DC input range with intelligent self power monitoring
- » Fully submersible (IP67) milled aluminum enclosure
- » Designed to meet MIL-STD-810, MIL-STD-901 and MIL-STD-167



LCD PANEL/OVERLAYS

- » Wide temperature, 24-bit color LCD panel
- » 315 PPI and 16.7 million colors provide unmatched image sharpness and detail
- » HDMI input with scaling support up to 1920 x 1080 @ 60 Hz
- » Industrial-grade LCD with long product life-cycle and Last Time Buy support
- » Optically bonded overlay to enhance display contrast, shock resistance, and eliminate potential for condensation forming between surfaces
- » Available Micro-Mesh™ EMI filter blocks incoming and outgoing RF radiation to comply with MIL-STD-461 (Army Ground), while allowing more light output as compared to ITO overlays

LED BACKLIGHTS/CONTROLLER

- » Proprietary dual mode backlight system produces:
 - › High contrast (Weber Class 5) and brightness mode; ideal for display of moving images in direct sunlight
 - › MIL-STD-3009-compliant NVIS mode
- » Ultra-wide dimming ratio (>1000:1) works well with extreme ends of ambient light conditions
- » Linear, logarithmic or custom PWM dimming available
- » Excellent uniformity and display quality
- » Integrated thermal sensor
- » Intelligent and programmable backlight controller
 - › Max/Min brightness limits for both backlight modes
 - › Max/Min PWM dimming levels
 - › LED rail over-temperature auto dimming

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Engineering What's Next

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MECHANICAL

- » Milled aluminum enclosure is designed to withstand harsh environments while remaining compact and lightweight
- » Designed for full submersion to meet IP67 requirements (no ingress submerged at one meter for 30 minutes)
- » Semi-permeable membrane vent allows pressure equalization while maintaining seal
- » Watertight, EMI-shielded silicone keypad resists bleach wash
- » High-speed Glenair “Mighty Mouse” military-grade connector minimizes cable bulk
- » 5.75” (H) x 8.29” (W) x 2.88” (D) maximum
- » Weighs less than 3 pounds

OPTIONS

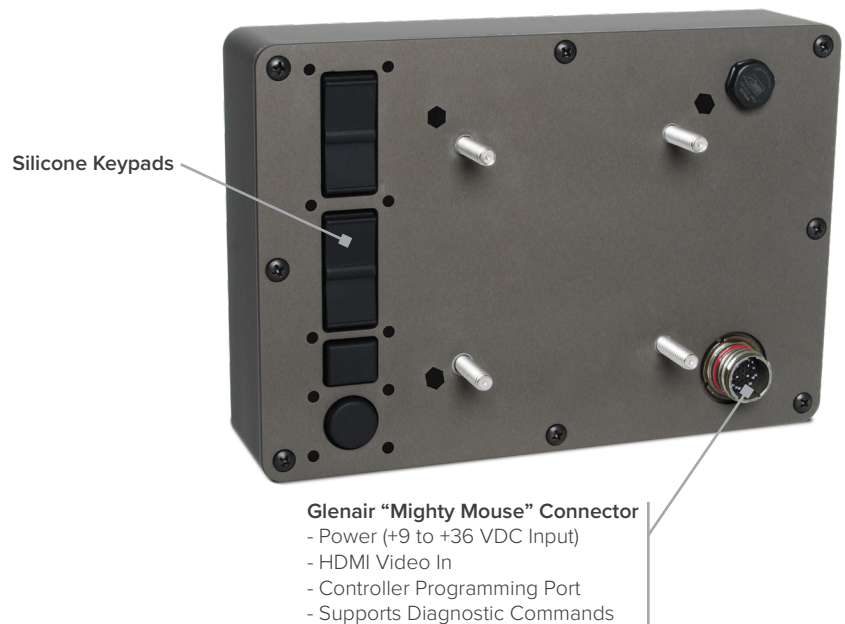
- » Standard, high brightness and/or NVIS LED backlights
- » VGA and display port support
- » Alternative overlays (heaters, EMI filters, touch sensors, vandal shields, etc.)
- » Keypads (backlit, NVIS compatible, custom, etc.)
- » Military/industrial-grade connectors
- » Custom enclosures and electronics
- » Custom or specialty firmware

POWER

- » Mil-spec power supply features wide operating voltage designed for military DC bus or direct battery operation
- » Smart power monitoring prevents any system disruption (or excessive current draw) if an optional heater device is running simultaneously with the system backlights
- » +9 Vdc to +36 Vdc input with 80 V surge suppression and overcurrent protection

MISCELLANEOUS/CUSTOM

- » Single internal PCB with integrated controllers for LED backlights, keypad, video and power monitoring and management
- » Programming port for boot loading and/or upgrade any controller firmware in the field
- » I²C bus slave interface



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