

# 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



Screenshot courtesy of Lt. Col. Leslie Pratt/U.S. Air Force

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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 GORE™ 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

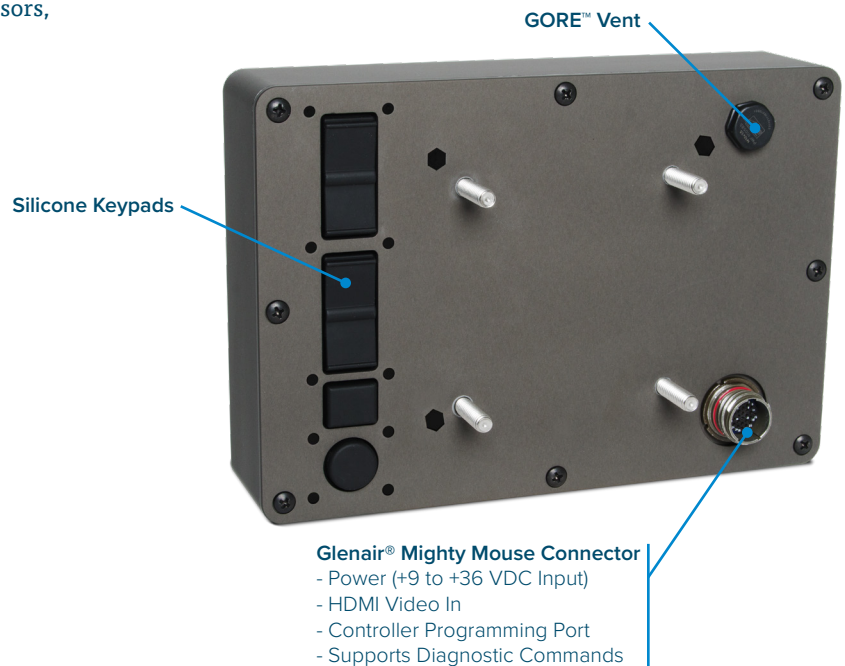
- ▶ Standard, high brightness and/or NVIS LED backlights
- ▶ VGA and display port support
- ▶ Alternative overlays (heaters, EMI filters, touch sensors, vandal shields, etc.)
- ▶ Keypads (backlit, NVIS compatible, custom, etc.)
- ▶ Military/industrial-grade connectors
- ▶ Custom enclosures and electronics
- ▶ 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 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
- ▶ I<sup>2</sup>C bus slave interface



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