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

GENERAL DIGITAL™
Engineering What's Next

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

BARRACUDA STANDALONE SOLAR/NVIS™ 7.0 CDDS

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

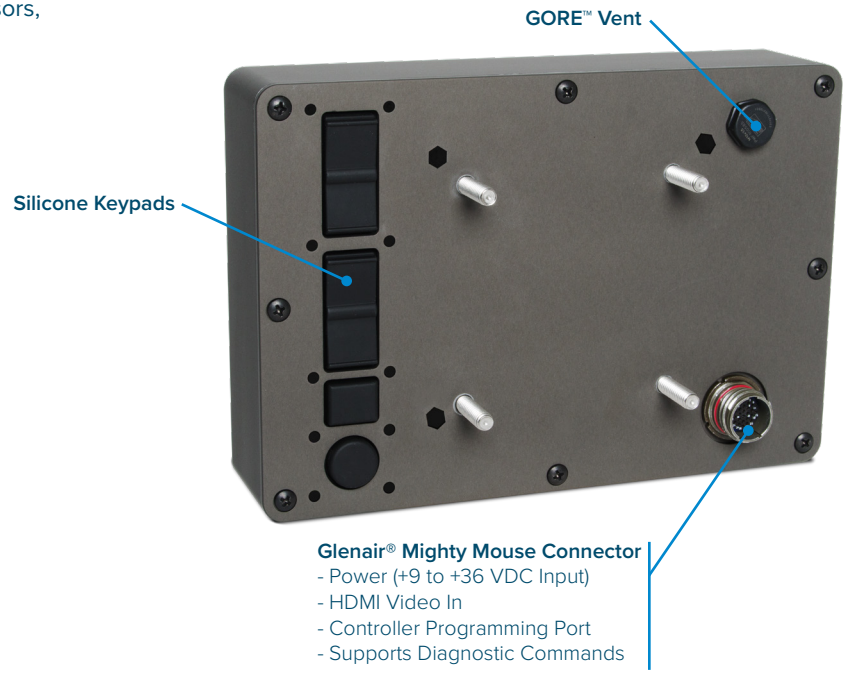
- Standard, high brightness and/or NVIS LED backlights
- VGA and display port support
- Alternative overlays (heaters, EMI filters, touch sensors, vandal shields, etc.)
- Keypads (backlit, NVIS compatible, custom, etc.)
- Military/industrial-grade connectors
- Custom enclosures and electronics
- Custom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



GENERAL DIGITAL
Engineering What's Next

60 Prestige Park Road
East Hartford, Connecticut 06108

Phone 860.282.2900 | **Toll-Free** 800.952.2535

E-mail gdc_info@generaldigital.com

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM CERTIFIED

General Digital is an SBA Small Business Concern.

The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement.

 999-0902-033r1