

# BARRACUDA STANDALONE SOLAR/NVIS™ 6.5

Environmentally Sealed, Marine-Grade, High Bright, NVG Compatible, Industrial-Grade, Standalone/Mountable 6.5" Monitor



## FEATURES

- Rugged Industrial-Grade Enclosure
- Sealed (IP67) Standalone/Mountable Enclosure, Keypad, Connectors
- High Resolution, High Contrast, Extended Temperature LCD
  - High-Performance, Value-Add Optical Films and Coatings
  - Dual-Mode (Sunlight Readable & NVIS) LED Backlight
  - Optically Bonded Antireflective Overlay
- Integrated EMI Mesh for MIL-STD-461 Compliance
- VGA, DVI-D and Composite/NTSC Inputs
- Brightness Dimming Control
- Advanced Video Controller Functions

## BENEFITS/OVERVIEW

The Barracuda Standalone Solar/NVIS 6.5" is a weather-proof industrial-/military-/marine-grade LCD monitor intended for use in indoor or outdoor applications where the monitor will be exposed either to nature's elements, (limited) submersion in water or forced water spray from a hose.

The monitor's display and electronics are housed in a rugged aluminum enclosure that is environmentally sealed to meet NEMA4 and IP67 standards. As such, the enclosure is designed to survive submersion in up to 1 meter of water up to 30 minutes. It can also resist a water spray of 65 gallons per minute from a 1 inch nozzle delivered from a distance of no less than 10 feet for a duration of 5 minutes.

The Barracuda Standalone enclosure is easily mounted to a variety of pedestals, mounting arms or brackets using the VESA standard mounting holes located on the rear of the enclosure. A gore filter/vent has also been integrated to rapidly equalize pressure and prevent an internal vacuum from being created, thereby increasing the service life of the seals and effectively managing condensation. The filter also prevents intrusion of dirt, dust, salts and liquids.

The sunlight readable LCD requires +24 VDC. A variety of IP67 (D-sub and circular) sealed connectors are available to support video, power, and serial/touch interfaces. Also available are a variety of display overlays, such as touch sensors (various technologies), vandal shields, optical heaters, EMI filters and more. Panel mount and rack mount configurations are also available.

# SPECIFICATIONS

Base Configuration P/N 90-3064-020

<b>Display</b> <ul style="list-style-type: none"> <li>· 6.5 inches</li> <li>· 1024 x 768 Pixels</li> </ul>	<b>LED Backlight Luminance</b> <ul style="list-style-type: none"> <li>· Sunlight Readable &amp; NVIS-Compatible (Dual Mode)</li> <li>· Standard Luminance Available</li> </ul>	<b>Video Controller</b> <ul style="list-style-type: none"> <li>· 1920 x 1200 Resolution @ 60 Hz</li> <li>· Serial Port Control</li> <li>· Image Flip and Invert</li> <li>· Picture-In-Picture</li> </ul>	<b>Video Inputs</b> <ul style="list-style-type: none"> <li>· VGA (1)</li> </ul>
<b>Video</b> <ul style="list-style-type: none"> <li>· Field Programmable</li> </ul>	<b>OSD Controller</b> <ul style="list-style-type: none"> <li>· Field Programmable</li> <li>· Dual Keypad support</li> </ul>	<b>Backlight Controller</b> <ul style="list-style-type: none"> <li>· Supports Single or Dual Mode LED Backlights</li> <li>· Greater Than 1000:1 Dimming Control</li> <li>· Programmable Brightness Set Points for Each Mode</li> <li>· Optional Dimming Algorithms</li> <li>· Other Programmable Features</li> </ul>	<b>LED Driver</b> <ul style="list-style-type: none"> <li>· Dual Mode Controller for Sunlight Readable and NVIS LED Backlights</li> <li>· Saves and Recalls Each Brightness Independently</li> <li>· PWM Dimming                             <ul style="list-style-type: none"> <li>- Logarithmic Dimming (Optional)</li> </ul> </li> <li>· Programmable Maximum Backlight Power</li> <li>· Thermal Monitoring and Protection</li> <li>· Programmable Maximum and Minimum PWM Levels</li> <li>· Sync to Keypad Backlights Capability</li> </ul>
<b>Keypad</b> <ul style="list-style-type: none"> <li>· 6 Engraved Keys on Front (Brightness, Contrast, Day/NVIS Mode, On/Standby)</li> <li>· Corresponding Silicon Keys on Rear</li> <li>· Environmentally Sealed</li> <li>· NVIS-Compatible Backlight (Dimmable)</li> </ul>	<b>Power Supply</b> <ul style="list-style-type: none"> <li>· +9 to +36 VDC Input</li> <li>· Transient Voltage</li> </ul>	<b>Enclosure &amp; Dimensions</b> <ul style="list-style-type: none"> <li>· Rugged Aluminum/Steel Construction</li> <li>· Environmentally Sealed to IP67</li> <li>· Custom Standalone Enclosure with Sun Shield</li> <li>· 5.75" x 7.35" x 2.50" (H x W x D)</li> <li>· Black Anodize and Iridate Military-Grade CARC Paint</li> </ul>	<b>Connections (Sealed D-sub. Connectors)</b> <ul style="list-style-type: none"> <li>· Video Input: VGA</li> <li>· Serial/Touch: DE-9s (Optional)</li> <li>· Power: 2W2 D-sub.</li> <li>· S-Video, Composite Video: DE-9P: (Optional)</li> <li>· Recessed, Environmentally-Sealed D-Style Connectors</li> </ul>
<b>Overlays</b> <ul style="list-style-type: none"> <li>· ITO Heater</li> <li>· EMI Filter</li> <li>· Optically Bonded to Minimize Internal Reflection and Increase Contrast</li> <li>· Antireflective Coating</li> </ul>	<b>Films</b> <ul style="list-style-type: none"> <li>· Custom LCD Film Stack (Sunlight Readable Only)</li> </ul>	<b>Miscellaneous Features</b> <ul style="list-style-type: none"> <li>· HDMI Signal Extender to Support &gt;5m External Cable Runs</li> <li>· Programming Port to Upgrade Control Electronics Firmware in the Field</li> <li>· Certified to MIL-STD-461 and MIL-STD-810</li> <li>· Extended Temperature LCD (-30° to +85°)</li> </ul>	<b>Optional: Video Controller</b> <ul style="list-style-type: none"> <li>· Low-cost, DVI Only Input</li> </ul>
<b>Optional: "All-In-One" and Breakout PCBs</b> <ul style="list-style-type: none"> <li>· Conformally Coated, Custom PCBs Featuring Four Embedded and Programmable Microcontrollers</li> </ul>	<b>Optional: LED Backlight Controller</b> <ul style="list-style-type: none"> <li>· Programmable (SR/NVIS Brightness Limits)</li> <li>· Up to 5000:1 Dimming Ratio (Boost Design)</li> <li>· Over-temp Detection and Soft Failure Algorithm</li> <li>· Current Control</li> </ul>	<b>Optional: LCD Heater Controller</b> <ul style="list-style-type: none"> <li>· Programmable Limits (Full-On, Reduced Mode, Off)</li> <li>· Uses Customer-Defined System Power (Max. Available Power) as Feedback</li> </ul>	<b>Optional: Keypad Controller</b> <ul style="list-style-type: none"> <li>· Programmable Functionality (e.g., Override Max. Brightness, Exit Standby Mode)</li> </ul>

