

# Nautilus® NR5000 19" Flat Panel Workstation

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## Features

- LCS 1 Class Machinery Control System
- Intel® Core™ 2 Duo Processor
- AC & DC power options
- Totally sealed IP65 system
- Dual redundant fiber option
- 19" Hi-Bright LED backlit display
- Rugged Touchscreen
- Front access - Compact Flash & USB

The Nautilus NR5000 19" Flat Panel Workstation was designed with Naval vessel machinery control systems as the primary application target. Understanding the mission critical nature and the often harsh environment requirements, the workstation was designed for survival and reliability. The interchangeable mounting flange and fully configurable I/O plate enable the unit to fit in any existing system with minimal changes, driving for fleet wide commonality. Designed with the latest in computing and display technology, including current processor and LED backlight LCD. It can operate at temperatures as low as -20°C and as high as 60°C. The rugged aluminum enclosure is designed to seal the system to IP65 providing physical protection as well as thermal management.



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## AZONIX MILITARY DISPLAYS



# Nautilus® NR5000

## 19" Flat Panel Workstation



### NR5000 APPLICATIONS

The Nautilus NR5000 Flat Panel Workstation can be used for displaying and interfacing with mission critical applications on surface and sub-surface ships.

- \* Machinery Control Systems
- \* Weapon Systems
- \* Air, Surface & Sub-surface sensors
- \* Damage Control
- \* Propulsion Monitoring

### Specifications

#### Physical

Dimensions .....	18.0" W x 15.1" H x 4.0" D
Weight .....	35 lbs
Power Consumption .....	75 Watts MAX
Input Power .....	AC: MIL-STD-1399 or DC: 12 – 36VDC
Mounting .....	Interchangeable: Panel or Rack
Enclosure Sealing .....	IP65
Connectors .....	MIL-Type: User Definable

#### Computer Features

Processor .....	Intel® Core™2 Duo Processor
Chipset .....	Intel® GM45
RAM .....	2 GB DDR (Expandable to 8GB)
Hard Drive .....	8 – 32 GB Compact Flash
Graphics .....	BIOS select, GPU=32GB MIN
External Interfaces .....	Fully Configurable
Ethernet .....	10/100 Mbps Fiber Ethernet – Dual Redundant Ports
Ethernet .....	10/100 Mbps Copper – Single or Dual Port
Serial Port .....	RS232
Audio .....	SBC out to drive externally amplified speakers
USB .....	USB 2.0 (2 Front Commercial & 2 Rear D38999 Style)
User Interface .....	Keypad: Brightness Adjust & 5-User Defined Function Keys
Power Switch .....	Front: Graceful Shutdown & Rear: Power Interrupt

#### Display Features

Display .....	19-inch viewable TFT color LCD
Resolution .....	SXGA (1280 x 1024)
Viewing Angle .....	+/- 45° Horizontal & Vertical
Luminance .....	400 cd/m <sup>2</sup>
Contrast Ratio .....	500:1
Touch Screen .....	Ruggedized Resistive

#### Environmental Conditions

Operating Temperature .....	-20°C to 55°C
Storage Temperature .....	-40°C to 75°C
Humidity .....	MIL-STD-810G Method 507.5
Vibration .....	MIL-STD-167-1 Type 1
Shock .....	MIL-STD-901D Grade A
Altitude .....	40,000 ft Storage
Salt Fog .....	MIL-STD-810G Method 509.5
EMI.....	MIL-STD-461E: CE102, CS101, CS114, CS116, RE101, RE102, RS101, RS103



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