

Nautilus NR5000

19" flat panel workstation

- LCS Freedom 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

The Nautilus NR5000 19" Flat Panel Workstation was designed with Naval vessel machinery control systems as the primary application target.

Recognizing the mission critical nature of such applications and the often harsh environment requirements, the workstation was designed especially for both 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, in order to maximize fleet-wide commonality.

Designed with the latest in computing and display technology, including current processor and LED backlight LCD display.

It can operate at temperatures as low as -20°C and as high as 55°C. The rugged aluminum enclosure is designed to seal the system to IP65 providing physical protection as well as thermal management.

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



NR5000 071912 r1

SPECIFICATION

DISPLAY FEATURES

Display

19-inch viewable TFT color LCD

Resolution

SXGA (1280 x 1024)

Viewing Angle

+/- 45°

Horizontal & Vertical Luminance

400 cd/m²

Contrast Ratio

500:1

Touch Screen

Ruggedized Resistive

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

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

ENVIRONMENTAL CONDITIONS

Temperature range

Operating -20°C to 55°C

Storage -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

PHYSICAL

Dimensions

18.0" W x 16.0" H x 6.0" D

Weight

40 lbs

Power Consumption

75 Watts max.

Input Power

AC: MIL-STD-1399 or

DC: 12 – 36V DC

Mounting

Interchangeable: Panel or Rack

Enclosure Sealing

IP65

Connectors

MIL-Type: User Definable



Intelligent connectivity with Intel Inside®.



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