C-Nav®

C-NaviGator IV

IMCA-compliant GNSS system control and display unit

FEATURES

Windows 10 IoT touch screen PC with compatible version of C-Monitor

Control and monitor multiple C-Nav® and third-party devices

Advanced IMCA/OGP® QA/QC displays

Connecting What's Needed with What's Next™

OCEANEERING®

C-NaviGator IV

IMCA-compliant GNSS system control and display unit

The C-Navigator IV takes a state-of-the-art Windows panel PC and combines it with a new touchscreen enabled version of C-Monitor software.

With high-quality display technology, low power consumption, and a fan-less design, the IEC 60945 certified C-NaviGator IV delivers a fast and reliable solution for monitoring satellite positioning. Our control and display unit has the same exceptional quality standards as the proven C-NaviGator III while integrating a standard LED backlight technology feature with full dimming (0 to 100%).

The system supports most C-Nav current and legacy receivers, C-Mariner INS, and standard Gyro inputs in addition to standard NMEA format inputs.

Additional Features

» Control and monitor positioning sensors
» Monitor National Marine Electronics Association (NMEA)-compliant GNSS and gyrocompass systems
» Three serial and four USB ports
» Current settings can be saved for future use
» User selectable units for distance, height, and speed
» User selectable time zones
» Day and night brightness settings, including auto mode
» On-screen help documentation
» Easy software updates via USB
» Accepts NMEA versions of 0183 (2.1, 3.0, 3.1, 4.0)
» Output NMEA versions (2.1, 3.0)
» 15.6 in LCD touch screen display

C-NaviGator IV Quality Monitoring Displays

» **Positioning Information**—large text display of position, HDG, SOG, and COG
» **Compliant with OGP/IMCA**—multi-constellation statistical analysis
» **Satellite Information**
  » Orientation sky plot displays the current location visible to the GNSS receiver
  » Table display of elevation, azimuth, and L1/L2 signal strength
  » Error ellipse graphically represents the sum of the horizontal error uncertainty
  » Scatter plot displays a history of the positions received from the GNSS receivers
  » List of "fixes" saved as an event log
  » Varied alarm settings with current alarms visible
» **Quality Panel Information** Single/dual frequency
  » 2D/3D height solution
  » Corrections in use (RTK, CCS, SBAS, DIFF, and autonomous)
  » Differential age of correctors
  » Satellites used in solution
  » HDOP, VDOP, and PDOP
  » FOM

Specifications

Processor
Intel® Atom™ x7-E3950 processor

Memory
8 GB SDRAM, 250 GB SSD storage

Operating System
Windows 10 IoT Enterprise

Display
15.6 in thin-film transistor (TFT) flat panel display—LED backlit touchscreen

~400 cd/m2, 1920 x 1080 panel/console

Mounting
19 in rack, desktop, 7.9 in / 200 mm Video Electronics Standards Association (VESA), panel/console

Size (W x H x D)
15.65 in x 11.0 in x 3.72 in | 397.6 mm x 279.5 mm x 94.5 mm

Weight
9.48 lb / 4.3 kg

Power

Power Supply	Multipower
Input Voltage	100-240V AC - 50/60Hz+ 24VDC
Consumption	44 W (typical) to 125 W (max)

I/O Connector
(1) RS-232 / RS-422 / RS-485 non isolated (DB9M) + (2) RS-232 isolated (DB9M)

(2) 10/100 Mb/s Ethernet interface ports (RJ45)

(4) USB 2.0 interfaces

(2) Display port (DP++) 20-pin female

Audio output (buzzer)

Adaptor for front panel USB access

Temperature

Operating	5°F to 131°F / -15°C to 55°C
Storage	-4°F to 140°F / -20°C to 60°C
IP Rating	IP66 (front)

Marine Type Approvals
IEC 60945 Fourth Edition 2002-08 (EN 60945: 2002), IACS E10, Class NK, CCS, EU RO MR

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