

C-Nav5000 Quick Start Guide

Follow this Quick Start Guide to enable the robust functionality of the C-Nav5000.

- Your C-Nav5000 has already been tested by qualified C-Nav Technicians. Refer to the following steps to connect equipment and operate the receiver.

This Quick Start Guide is intended to familiarize the user with the basic setup of the C-Nav5000 only. The supplied USB Flash Drive (P/N CNV7CNG002-0) includes the C-Nav5000 User Guide, (*Adobe Reader required*), which contains in-depth product information and technical specifications. Refer to the table below for items included in the C-Nav5000 GNSS Sensor Kit.

Table 1: Supplied Equipment

C-Nav5000 GNSS Sensor (P/N CNV5K-PH90229916)
COM1 – LAN Ethernet Data Cable (P/N CNV5K-PH96235870)
HDD – 26 to USB1 device/COM2/4 Serial Cable (P/N CNV5K-96229301)
Unterminated Ext Power/1PPS/Event with Filter (P/N CNV5K-PH96235771)
USB Flash Drive (P/N CNV7CNG002-0)
Dual Data Adapter (P/N CNVCNV335G001-0)
110/220 VAC Power Adapter (P/N CNV5K-PH96235770)
Harns Power Cord 2-Prong North America (P/N CNV73-200002-00LF)
Cord, Power, IEC320-C7 (EURO) (P/N CNV4250012-220)
Cord, Power, IEC320-C7 (UK) (P/N CNV4250013-240)
1PPS Adapter/DB9-BNC (P/N CNVCNV335G002-0)
Mounting Bracket, Top & Bottom (P/N CNV5K-PH60229636)
Phenolic Washer Kit (P/N CNV5K-PH95232908)

Very Important

- Before connecting your C-Nav5000 ensure that the unit has been isolated using the Phenolic Washer Kit. This hardware enables the receiver chassis to be electrically isolated from the mounting surface. Refer to **Section 4 – Installation of the C-Nav5000 User Guide** for detailed information.

Connect Equipment

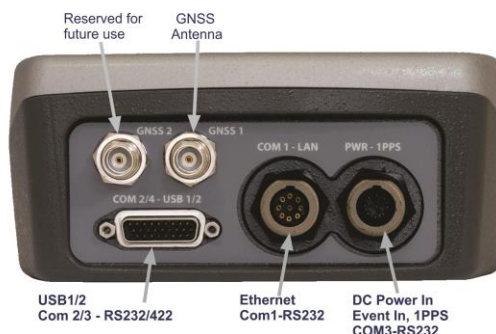


Figure 1: C-Nav5000 Rear View

Refer to Figure 1 above for the steps below:

- Use one of the two supplied data cables for communications:
 - ✓ Ethernet RJ45 / DB9S female Y-cable (P/N CNV5K-PH96235870): Connect the Positronic 9-Pin connector of the cable to COM1 - LAN at the rear of C-Nav5000. Connect the DB9S end to the computer or C-NaviGator CDU.
- Or...
- ✓ HDD – 26 to USB1 Device/COM2/4 Serial Cable (P/N CNV5K-96229301): Connect the 26 pin connector of the cable to COM2/4 – USB1/2 at the rear of C-Nav5000. Connect the DB9-1/2S end to the computer or C-NaviGator CDU.
- Mount the GNSS antenna. Locate the antenna in an area with a 360° clear view of the sky. Refer to **Section 4 - Installation of the C-Nav5000 User Guide** for detailed installation instructions.
- Connect the TNC connector on one end of a C-Nav approved GNSS antenna cable to the GNSS antenna. Connect the other end of the cable to the TNC connector, labeled **GNSS1**, at the rear of the C-Nav5000.
- Optional C-Nav approved Antenna Cables are available through your authorized C-Nav Dealer, or by contacting C-Nav Support.

- Perform one of these steps to setup power:
 - If you are connecting using the optional Positronic 9-Pin Female Unterminated Power Cable (P/N CNV5K-PH96235771), connect the power cable to the connector labeled **PWR-1PPS**, at the rear of the C-Nav5000. Connect the unterminated end of the power cable to a DC power source (9 to 32VDC, 6W typical, see **Section 3 – Interfacing of the C-Nav5000 User Guide** for power cable pin assignments).
 - If you are connecting using the optional AC Power Supply Kit (P/N CNV5K-PH96235770), connect the Positronic 9-Pin Female connector of the Power Supply Unit to the connector labeled **PWR-1PPS**, at the rear of the C-Nav5000. Insert an AC Power Cord into the 2-prong receptacle on the PSU, based on regional AC power availability (110, 220 or 240 VAC power cords provided) and plug into an appropriately rated wall receptacle.


- To power the unit ON / OFF, depress the  I/O switch for more than 2 seconds. All front panel LEDs illuminate for 3- 5 seconds during power-up as the receiver performs its built-in-test. The Power / GNSS Status LED changes to Red. Refer to **Section 3 - Interfacing of the C-Nav5000 User Guide** for LED status.



Figure 2: C-Nav5000 LED Indicator Panel

- Your C-Nav5000 hardware is now properly connected.
- At this point you may connect to C-Nav's C-Setup, C-Monitor®, C-Scape or C-NaviGator controller solutions to view real-time positioning data and to control the C-Nav5000.
- The C-Nav Corrections Service license is not a standard feature of any Software Bundle. It is purchased separately. Refer to reverse side of this pamphlet for more information on obtaining a C-Nav license.

How to Obtain a C-Nav License

The C-Nav Corrections Service is a subscription service. The user pays a subscription fee, which licenses the use of the service for a predetermined period of time. Subscriptions are requested by completing the online request format: [C-Nav Authorization Portal](#), via a C-Nav authorized representative, or by contacting C-Nav at: cnavauthcode@oceanengineering.com

C-Nav recommends that customers process new C-Nav license requests 15 to 30 days before the expiration of the current license.

The requirements to obtain a C-Nav license are:

- ✓ Valid Purchase Order
- ✓ Signed License Agreement
- ✓ Appropriate Credit Terms with Oceanengineering, Inc., or an Authorized Dealer; including a valid P.O

When contacting C-Nav regarding subscription or deactivation of service, please provide the following information:

- ✓ Vessel Info and brief project description (Name / Number, Location)
- ✓ Customer Info (Company Name, PO/Ref. Num. Point of Contact)
- ✓ C-Nav Equipment Details (Receiver Type, Firmware version, Serial Number, P/N's, etc)
- ✓ Required Start / Stop Date or Period
- ✓ Service Type (Land or Offshore, Activation or Deactivation)
- ✓ Operational Region (Asia, Australia, China, South and Central America, Caribbean, Africa, Middle East, or Other)
- ✓ Detailed Contact Information (Phone, Fax, E-Mail, Billing / Shipping Addresses)

An authorized subscription will provide an encrypted code, which is specific to the Serial Number of the C-Nav receiver to be authorized. This is entered into the receiver Over-the-Air, or via a C-Nav controller solution (i.e. C-Setup, C-Monitor, C-Scape or C-NaviGator CDU).

Over-the-Air C-Nav Licensing

Over-the-Air (OTA) C-Nav Licensing is the easiest way to install a C-Nav Corrections Service license. The installation of a purchased license is accomplished via radio broadcast. Over-the-Air C-Nav Licensing is especially convenient for receivers in remote locations in the field.

The customer should do the following in order to properly receive the CCS Over-the-Air broadcast of the C-Nav license:

1. Turn on the C-Nav5000 Receiver.
2. Ensure that the C-Nav5000 Antenna has clear access to the CCS tracking satellite.
3. Request the C-Nav license.

Once a C-Nav license is activated, the C-Nav Status LED on the C-Nav5000 Front Panel will be solid green.



Mailing List

Join the C-Nav mailing list at [C-Nav Alert Signup](#) to receive important announcements from C-Nav Support.

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Contract Holder