

WORLD DGPS

C-Nav3050



C-Nav3050 FEATURES:

- 66-channel combined GPS/GNSS/L-band receiver provides sub-meter, precise point positioning accuracy worldwide between 72N and 72S.
- Multi-constellation support and tracks GPS, GLONASS, Galileo, C-Nav, other SBAS (WAAS/EGNOS) signals, and accepts external RTCM input.
- Small and lightweight for fast and hassle-free setup.
- Easily configured utilizing C-Nav proprietary PC-based controller software application.
- Easily monitored with intuitive front-panel LEDs or a C-NaviGator II Control/Display Unit.



FEATURES

- "All-in-view" parallel tracking with 66 channels
- SBAS (WAAS/EGNOS/MSAS/GAGAN) Tracking
- Built-in C-Nav L-band receiver
- L1, L2, L5, G1 & G2 full wavelength carrier phase tracking
- C/A, P1, P2, L2C, L5, G1 and G2 code tracking
- Software upgradeable for Galileo signal reception (E1, E5a)
- High sensitivity / Low signal level tracking
- Fast signal acquisition / re-acquisition
- Superior interference suppression (both in and out of band)
- Patented multipath rejection
- RTK Extend and C-Nav Over-The-Air activation capabilities
- Configurable as RTK base or rover
- Programmable output rates
- Event Marker input / 1PPS output
- 2GB Internal data storage

PHYSICAL/ENVIRONMENTAL

- Size (L x W x H): 6.47" x 4.60" x 2.37" (164 x 117 x 60mm)
- Weight: 1.1 lbs (0.5 kg)
- Front Status Indication: Power/GPS Status, Correction Service Status, Interface Status, and Bluetooth Status
- External Power Input: AC/DC Adapter 110/220VAC
12VDC Nominal 0.5A
(9.0V to 32VDC)
- Connectors:
 - I/O Ports: 2 x 9 pin Positronic
 - DC Power: 1 x 9 pin Positronic
 - RF Connector: TNC (with 5VDC bias for antenna/LNA)
- Temperature (ambient):
 - Operating: -40° C to +70° C (-40° F to 158° F)
 - Storage: -40° C to +85° C (-40° F to 185° F)
- Humidity: 95% non-condensing
- Tested in accordance with MIL-STD-810F for: Low pressure, solar radiation, rain, humidity, salt fog, sand dust, and vibration

COMPLIANCE/APPROVALS

- Compliance with the following standards:
 - > IMO performance standard for GPS* > IEC 60529
 - > FCC Part 15 Class B, CE
- Type Approvals:
 - > Wheelmark
 - > USCG

PERFORMANCE

GPS RECEIVER PERFORMANCE

- Accuracy (RMS):

Horizontal / Vertical	
RTK (<40km):	1cm + 0.5ppm / 2cm + 1ppm
C-Nav:	<10cm / <15cm
Code DGPS (<200km):	45cm + 3ppm / 90cm + 3ppm
Velocity:	0.01ms
RTK Extend (<15 mins):	3cm + 1ppm / 6cm + 2ppm
- User Programmable Output Rates

Position/Velocity/Time:	1, 5, 10, 25, 50, & 100 Hz
Raw Data:	1, 5, 10, 25, 50, & 100 Hz
- Data Latency

Position/Velocity/Time:	10ms at all rates
Raw Data:	10ms at all rates
- Time-to-First-Fix

Cold/Warm/Hot:	<60s / <50s / <20s
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(typical values measured per ION-STD 101)
- Dynamics

Acceleration*:	up to 6g
Speed*:	<515m/s (1000 knots)
Altitude*:	<60,000ft (18.3km)

*Restrictions due to export control laws

I/O CONNECTOR ASSIGNMENTS

- Data Interfaces: 2 x RS232 (1 - changeable to RS422, 4800-115200 baud rates)
- 1 x USB 2.0 (Host or Device)
- Bluetooth
- Ethernet (10T/100T)

INPUT/OUTPUT DATA MESSAGES

- NMEA-0183: ALM, GBS, GGA, GLL, GRS, GSA, GST, GSV, RMC, RRE, VTG, ZDA, NCT
- Differential Correction: RTCM 2.3 and 3.0, SBAS and C-Nav (proprietary)
- RTK Correction: CMR/CMR+, RTCM, NavCom Ultra RTK
- Receiver Control: NavCom Proprietary Commands (ASCII)

C-NaviGator. CONTROL DISPLAY UNIT OPTION

- Dimensions (W x H x D): 13.4" x 10.3" x 3.3" (34.0 x 26.2 x 8.4cm)



C-NaviGator. Control Display Unit

*IMO require all SOLAS class ships to carry a type-approved GPS and further that any new GPS installation shall be compliant with the new performance standard for GPS. This was defined by MSC 112(73) and resulted in the associated test standard IEC 61108-1 Ed. 2.

WWW.CNAVGPS.COM

Specifications subject to change without notice.
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LAFAYETTE (HEADQUARTERS)

730 E. KALISTE SALOOM RD.
LAFAYETTE, LOUISIANA 70508
TEL: (+1) 337.210.0000
FAX: (+1) 337.261.0192

HOUSTON

10615 SHADOW WOOD DR
SUITE 100
HOUSTON, TEXAS 77043
TEL: (+1) 713.468.1536
FAX: (+1) 713.468.1115

MEXICO

CALLE 55 N° 382
COL OBRERA INTER 74 y 76
CUIDAD DEL CARMEN, CAMPECHE
CP 24117, MEXICO
TEL: (+52) 938.381.8973
FAX: (+52) 938.381.8973

BRASIL

RUA MAURICIO SILVA TELES, 95,
CEP 22640-210, BARRA DA TIJUCA
RIO DE JANEIRO, BRASIL
TEL: (+55) 21.2172.4000
FAX: (+55) 21.2439.8437

EUROPE

5 HILLSIDE BUSINESS PARK (1ST FLOOR)
KEMPSON WAY
BURY ST EDMUNDS
SUFFOLK, IP32 7EA, UK
TEL: (+44) 1284.703.800
FAX: (+44) 1284.701.004

SINGAPORE

10 CHANGI SOUTH LANE
OSSIA INTERNATIONAL BUILDING #03-01B
SINGAPORE 486162
TEL: (+65) 6295.9738
FAX: (+65) 6296.0098

SOUTH AFRICA

53 PENINSULA ROAD
ZEEKOEVLEI, CAPE TOWN 7941
SOUTH AFRICA
TEL: (+27) 21.705.2741
FAX: (+27) 21.705.2741

ANGOLA

RUA ANTONIO MARQUES
MONTEIRO N° 36/38
LUANDA - ANGOLA
TEL: (+244) 222.330202
FAX: (+244) 222.335464