C-Nav3050 FEATURES:

- 66-channel combined GPS/GNSS/L-band receiver.
- Full Constellation tracking GPS, GLONASS, Galileo, C-NavC1 and C-NavC2, 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-NavC1 and C-NavC2-L-band receiver
- C-NavC1 operating mode with automatic fail-safe to C-NavC1
- 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 SVDC bias for antenna/LNA)
- Temperature (ambient):
  - Operating: -40º C to +70º C (-40º F to 158º F)
  - Storage: -40º C to +85º C (-40º F to 185º 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*
  > FCC Part 15 Class B, CE
  > QC message strings comply with recommendations OGP 373-19 and IMCA S015 (July 2011)
- Type Approvals:
  > Wheelmark
  > USCG

PERFORMANCE
GNSS RECEIVER PERFORMANCE
- Accuracy (RMS):
  - RTK (<40km): 1cm + 0.5ppm / 2cm + 1ppm typically <10cm / <15cm
  - Code DGNSS (<200km): 45cm + 3ppm / 90cm + 3ppm
  - Velocity:
    - 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 (typical values measured per ION-STD 101)
- Dynamics
  - Acceleration*: up to 6g
  - Speed*: <515m/s (1000 knots)
  - Altitude*: <60,000ft (18.3km)

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-Nav3050 TECHNICAL SPECS

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Specifications subject to change without notice.
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