



HarbourPilot Lightweight

Experience **superior navigation**
with world-class quality

HarbourPilot Lightweight offers exceptional navigation information to support even the most critical ship handling manoeuvres.

HarbourPilot is a dual antenna, mGNSS enabled system with highly accurate Heading and Positioning performance.

This high precision Portable Pilot Unit provides pilots with reliable information which is completely independent of the ship's data.

The stable and accurate data received from the HarbourPilot's sensors is fed to the software for real-time and accurate navigation and docking information. It is an invaluable tool for all piloting conditions and challenges including low visibility, rough weather and confined navigation and docking

No matter the type of piloting operation, HarbourPilot is the ultimate decision support tool from boarding to berthing.



Navicom Dynamics
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An mGNSS enabled dual antenna system which is completely independent of the ship.



Battery Charging Connector



MSEPCable Connector



LED Indicator Panel

Performance Features & Usability

- Independent** : Independent source of navigation information. Not dependent on ship's navigation instruments.
- Accurate** : Dual antenna system provides accurate and stable data to the software to create a real-time image of the vessel on screen.
- Independent AIS** : External antenna option available
- Improves work efficiency** : Swept-path predictor for monitoring turns. Excellent aid in poor visibility or rough weather conditions. Increased productivity and profit for Ports.
- Enhances Safety** : Safer ship handling in confined and marginal conditions.
- Typical Usage** : Harbour docking, Swinging, Tight turns - Can support any manoeuvre.
- Interfacing external data** : Optionally provides real-time UKC information. Can be interfaced with shore-based data where needed.
- Enhancing PPU performance/ data quality** : Receives SBAS corrections (where available)
Optional Base stations - DGPS/RTK corrections.



Navicom Dynamics

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A white HarbourPilot device is mounted on a boat's deck. The device has a red base and a white top section with a circular antenna on top. It features several status lights (green, yellow, red) and a small display. The background shows the boat's railing and the water.

HarbourPilot Lightweight Specifications

Physical Specifications

Dimensions	235 x 135 x 110 mm (slave antenna) 125 x 90 mm (master antenna)
Weight	3 kg (excluding display) (6.6 lbs)
Battery	Li-Ion rechargeable
Battery life	up to 12 hours
Indicators	Battery status, Comms link status, GNSS position status
Charger cable	1.5 m charging cable with adapter

Technical Specifications

Position source	GPS/ GLONASS/ GALILEO/ QZSS/ BEIDOU (L1 mGNSS)
Correction source	SBAS enabled (WAAS, MSAS, EGNOS, GAGAN, SDCM, QZSS) Atlas Basic (<i>requires lifetime subscription</i>)
Position accuracy*	GNSS 2.5m SBAS (corrected) 0.6m DGPS (corrected) 0.5m RTK (corrected) 0.02m Atlas Basic (corrected) 0.5m Atlas RTK H30=0.3m/H10=0.08m
Heading	HDG Accuracy*: 0.06° at 1.5m antenna separation HDG Precision: 0.001°
Bow & Stern Velocity	± 0.01m/sec (0.02Kn)
Rate of Turn	ROT Accuracy* 0.3°/min ROT Precision: 0.1°/min
AIS reception range	3nm
Data output	GPGGA, GPHTD, GPROT, AIVDM (when AIS built in) and battery status
Multi-connect ability	Wi-Fi or Bluetooth (Class 1). Can connect to multiple devices at once to enable sharing of info.

Environmental Specifications

Operating temperature	- 20°C to +74°C (-4°F to +165°F)
Storage temperature	-40°C to +85°C (-40°F to + 185°F)
Humidity	95% (non-condensing)
IP rating	IP 66
(RoHS)	HarbourPilot Lightweight meets the directive for Restriction of Hazardous Substances (RoHS)

* achieves accuracies down to

Order the Complete Package from us now!

HarbourPilot Lightweight + Display (Laptop/Tablet) + Software + ENCs Set-up & ready to use



Our products are used in over 40 countries globally. Some of our HarbourPilot customers are:

- Gladstone Ports Corporation, Australia
- Sabine Pilots, Texas, USA
- Maranhão Pilots, Sao Luis, Brazil
- Port of Dover, United Kingdom
- Royal Australian Navy, Australia

To refer case studies of our products, please visit our website on:
www.navicomdynamics.com/case-studies

- ▶ 2 year warranty applicable (1 year for cables and batteries)
- ▶ Product support packages available
- ▶ Purchase also available through 'Equipment on lease' (SaaS Select) program (inclusive of comprehensive support)
- ▶ Discounts available for volume purchases

The PilotPack is custom made for Navicom HarbourPilot Lightweight system. This industrial strength backpack protects the equipment from harsh maritime conditions while allowing Pilots to easily store and transport Navicom gear while on the job.

Ergonomically designed to facilitate easy transfers whether carried on person or hauled up side of ship or down from a helicopter.






Proudly designed and manufactured in New Zealand



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