



HarbourPilot Mk5

Faster. Lighter. More Accurate. >

HarbourPilot Mk5 is the newest generation of PPU, and is about to set a new world standard in high-quality precision navigation systems.

Our popular and trusted HarbourPilot unit has been through a complete redesign - to be lighter, faster, and more accurate than ever before.

With the HarbourPilot Mk5, you can feel at ease even in the most critical ship handling manoeuvres. HarbourPilot is a dual antenna, mGNSS enabled system with highly accurate Heading and Positioning performance.

This precision Portable Plot Unit provides pilots with highly 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.

HarbourPilot Mk5 brings exceptional navigation information to your fingertips. No matter the type of piloting operation, HarbourPilot is the ultimate decision support tool from boarding to berthing.

A completely independent
mGNSS enabled dual
antenna system.



Heading Antenna

VHF (AIS) Aerial

Lightweight
Processing Unit

UHF Aerial (Available
on special order)

L1/L2 Position
Antenna (L5 Available)

Straps safely secure
the HPMk5 to
railings

LED Indicator Panel

Battery Indicator Light

Waterproof Charging Port

Performance Features & Usability

- Independent** : Completely independent source of navigation information.
- Accurate** : Dual antenna system provides accurate and stable data to the software to create a real-time image of the vessel on screen.
- Easy & Fast to set up** : Sets up in seconds with user-friendly controls.
- Improves Work Efficiency** : Swept-path predictor for monitoring turns. Increased productivity and profit for Ports.
- Enhances Safety** : Safer ship handling in confined areas and challenging conditions. Excellent aid in poor visibility or rough weather conditions.
- Typical Usage** : Harbour docking, Swinging, Tight turns - The HarbourPilot Mk5 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), NTRIP RTK, UHF RTK (base station), UHF DGPS (base station and Atlas satellite-based corrections).
- Pitch, Roll & Heave** : Option available for highly accurate data on pitch, roll and heave.
- Multi-Connect Ability** : Can connect to multiple devices at once to enable sharing of information.



Navicom Dynamics

Innovate | Integrate | Communicate



HarbourPilot Mk5 Specifications

Physical Specifications

Dimensions of Processing Unit	180mm x 140mm x 90mm
Dimensions of Master Antenna	135mm x 135mm x 75mm
Weight of Processing Unit	1.25kg
Weight of Master Antenna	650g
Total System Weight	1.9kg
Battery	Li-ion rechargeable. Full functionality run time - 18 hours

Technical Specifications

Position source	GPS/ GLONASS/ GALILEO/ QZSS/ BEIDOU L1/L2 (L5 available)
Correction source	SBAS enabled (WAAS, MSAS, EGNOS, GAGAN, SDCM, QZSS)
Additional enhancement	UHF RTK (base station), NTRIP RTK, Atlas satellite-based corrections, UHF DGPS (base station), SBAS (where available)
Position Accuracy	RTK (corrected) 0.01m Atlas correction services H10 (corrected) 0.04m /H30 (corrected) 0.15m DGPS (corrected) 0.3m SBAS 0.3m GNSS (uncorrected) 2.5m
Heading (HDG)	HDG Accuracy: 0.02° at 5m antenna separation HDG Precision: 0.001°
Bow & Stern Velocity	± 0.01m/sec (0.02Kn)
Rate of Turn	ROT 0.1°/min
AIS reception range	10nm
Data output	GPGGA, GPHDT, GPROT, AIVDM (when AIS built in) and battery status
Multi-connect ability	Wi-Fi/Bluetooth (Class 1), GSM <i>Can connect to multiple devices at once to enable sharing of info</i>
Pitch/Roll (RMS)	0.5° Accuracy
Heave (RMS)	30 cm rms (DGNSS), 2 cm rms (RTK)

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	IP66
(RoHS)	HarbourPilot Mk5 meets the directive for Restriction of Hazardous Substances (RoHS)

Order the Complete Package from us now!

HarbourPilot Mk5 + Display (Laptop/Tablet)+ Software + ENC's 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 Mk5 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



sales@navicomdynamics.com | www.navicomdynamics.com | Call: +64 99155330

Office Address: 2 Parkhead Place, Albany, Auckland, NZ 0632. | Postal Address: PO Box 302 193, North Harbour, Auckland, NZ 0751.

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