ChannelPilot
RTK

RTK level Position Accuracy

ChannelPilot can now work with NTRIP corrections to provide RTK level accuracy, in a single antenna PPU.

The NTRIP client is run on the users display (laptop/tablet) and the obtained RTK corrections are then used by ChannelPilot to provide position accuracy down to 2.5cm.

ChannelPilot's accurate, reliable and stable performance is further improved with this position information.

ChannelPilot has it's own gyro for independent ROT information and provides smoothed and accurate HDG (once it wirelessly calibrates itself from the ships AIS messages).

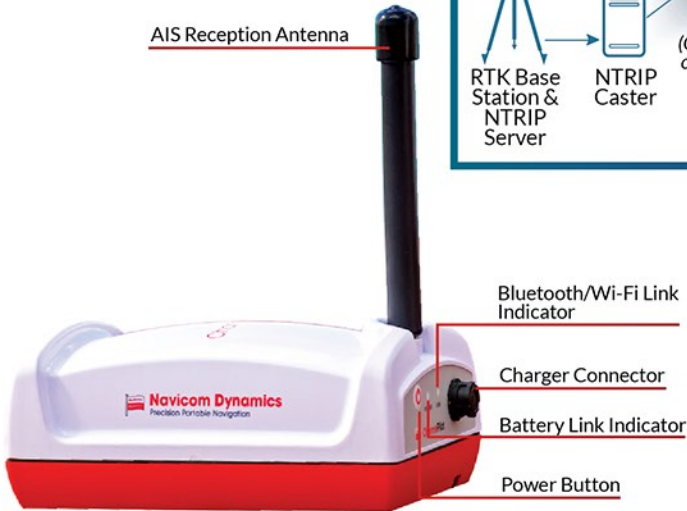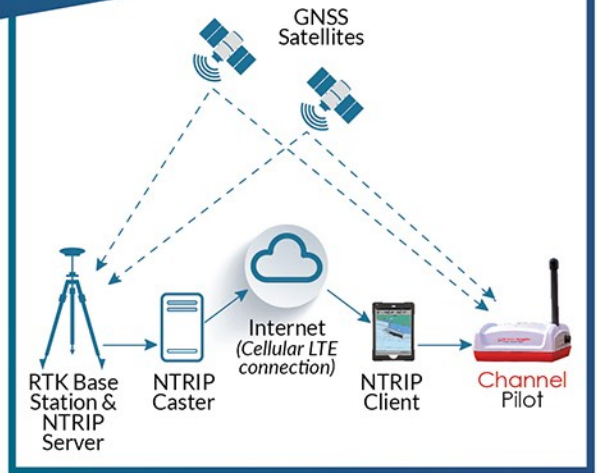This data can be used in critical and confined ship handling manoeuvres including as docking and berthing.

With ChannelPilot RTK, users can access RTK level position accuracy without the need to invest in base station infrastructure.

Navicom Dynamics
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A multi GNSS enabled single antenna system which is independent of the Pilot Plug.

GNSS Satellites

RTK Base Station & NTRIP Server

NTRIP Caster

Internet (Cellular LTE connection)

NTRIP Client

Channel Pilot

AIS Reception Antenna

Bluetooth/Wi-Fi Link Indicator

Charger Connector

Battery Link Indicator

Power Button

Navicom Dynamics
Precision Portable Navigation

Performance Features & Usability

Semi-independent	:	Independent of Pilot Plug for Position and ROT data with semi-independent Heading data (wirelessly calibrated from the ship's AIS)
Quick start-up	:	Self-calibrating gyro initialises in 120 seconds.
Lightweight & Portable	:	Weighing 850 grams and ergonomically designed, this robust unit is built for tough conditions.
Operational run time	:	15 hours
Multi-connect Ability	:	Compatible with Bluetooth or Wi-Fi devices. Can connect to 3 Wi-Fi or 7 Bluetooth devices at the same time.

Navicom Dynamics
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ChannelPilot
RTK Specifications

Physical Specifications

Dimensions	170 x 110 x 72 mm [6.7" x 4.3" x 2.8"]
Weight	850g (1.9 lbs)
Battery	Li-Ion rechargeable
Indicators	Battery status, Link status (to the display unit)

Technical Specifications

Position source	GPS/ GLONASS/ GALILEO/ QZSS/ BEIDOU (L1 mGNSS)
Correction source**	NTRIP RTK
Position Accuracy*	mGNSS (uncorrected) 2.5m || RTK (corrected) 0.025m
Heading (HDG)	HDG Accuracy* 0.5° | HDG Precision: 0.1°
Rate of Turn (ROT)	ROT Accuracy* 0.25°/min | ROT Precision: 0.1°/min
AIS reception range	10nm
Data output	GPGGA, GPHDT, GPROT, AIVDM, GPVTG and battery status. *Outputs can also be configured on request*
Wireless	Wi-Fi or Bluetooth option (Class 1) (Multi-connect to multiple devices)
Battery life	Up to 15 hours
Set-up time	1-2 mins

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)	ChannelPilot meets the directive for Restriction of Hazardous Substances (RoHS)

** SBAS corrections will not be available with this ChannelPilot variant
* achieves accuracies down to

Order the **Complete Package** from us now!

ChannelPilot RTK +
Display (Laptop/Tablet)+
Software + ENCs

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

- Sabine Pilots, Texas, United States of America
- Fremantle Pilots, Western Australia
- Ports of Auckland, New Zealand
- Seine River Pilots, France
- Liverpool Pilots, UK
- Port of Santos, Brazil

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 - enquire with us

▶ Purchase also available through 'Equipment on lease' (SaaS Select) program (inclusive of comprehensive support)

ChannelPilot RTK requires the following:

▶ Electronic Charting Software (ECS) to have NTRIP client

▶ User to have subscription to local NTRIP provider

▶ Laptop/Tablet to have cellular connection

The PilotPack is custom made for Navicom ChannelPilot. This industrial strength backpack protects the equipment from harsh maritime conditions while allowing Pilots to easily store and transport 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