



SafePilot CAT PRO

SafePilot CAT PRO is a completely independent portable pilot unit designed to overcome the limitations of AIS and Wi-Fi range. Featuring an extended battery life as well as wireless charging, this lightweight solution can be configured in four different operational modes.

Providing ultra-stable position tracking by utilising Multi GNSS L1/L2, CAT PRO delivers situational awareness on vessel maneuvers to within 1 cm accuracy.

Benefits

SafePilot CAT PRO is a scalable solution that will suit all types of vessel maneuvers with interchangeable units provide greater flexibility.

For piloting operations accuracy of position and speed is key. SafePilot CAT PRO delivers a speed accuracy down to 1 cm/s and a heading accuracy down to 0.01°, allowing the system to be used for the most challenging operations, for instance ultra large container vessels (ULCV) and LNG ships as well.

Acquiring NTRIP RTK corrections through SafePilot makes CAT PRO the smallest, most accurate and versatile Portable Positioning sensor ever.

Extremely quick set up time from using one unit on smaller vessels to two units and an extender to most complicated, larger vessels.

Wireless charging allows for greater flexibility in keeping the units powered as an alternative to the traditional charging with cable. In addition to extending the life time of the PPU, optimal battery management also ensures that operations are not compromised.

Ultra fast charge - less than one hour to 80% - means minimal loss of time between critical operations.

Combined with the SafePilot software, information can also be exchanged through the SafePilot cloud.

Trelleborg's SafePilot CAT PRO solution is designed for applications requiring the highest positioning accuracy such as piloting in narrow channels and confined waters.

Features

- < 1 kg
- Interchangeable
- Wi-Fi extender
- 30 hours battery life
- Battery management
- Wireless charging
- Quick charge
- 4 different operational modes
- Multi GNSS L1/L2
- NTRIP over the air corrections
- Independent heading
- Spoofing and jamming detection
- Built-in rate gyro
- Proven hardware build and quality



Operational Modes

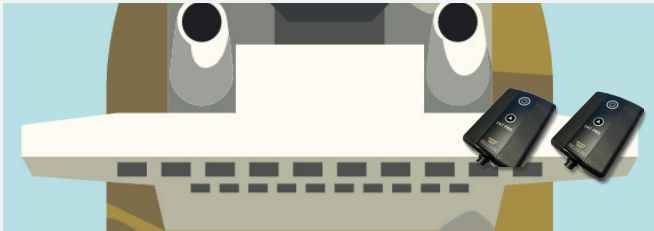
SafePilot CAT PRO
as a Pilotplug repeater



SafePilot CAT PRO
as a Pilotplug repeater with external GNSS receiver



SafePilot CAT PRO
as a stand alone system providing independent position, speed, course and heading



SafePilot CAT PRO
as a stand alone system providing independent position, speed, course and heading with AIS data from ship and extended Wi-Fi range



SPECIFICATIONS (RMS)	CAT PRO
Operating temperature range	-10 - 50°C
Electronic encapsulation	IP65
Base line	1-40m
Humidity	100 %
Weight	2 x 410g
Size	138 x 100 x 25 mm
Battery Capacity	30 hours operation
Speed	1 cm/sec (=0.02kn)
ROT accuracy	0.1°/min
Heading accuracy	0.05°(@4m)
Altitude accuracy	3 cm (RTK)
GNSS Dual frequency	GPS/GLONASS/BeiDou/GALILEO

POSITION ACCURACY (RMS)	CAT PRO
RTK	1 cm + 1 ppm
DGPS	0.40 m
SBAS	0.60 m
Stand-alone	2.0 m

PRODUCT	INCLUDED	OPTIONAL
Charger	●	
Universal Mount	●	
Hard Case	●	
Safety lanyard	●	
Wi-Fi extender & Pilot plug repeater	●	
Wireless Charger		●

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