

SafePilot CAT MAX Portable Piloting Units

SAFEPILOT CAT MAX

Trelleborg's SafePilot CAT MAX solution is developed for applications requiring the highest positioning accuracy, such as piloting in confined waters or offshore operations.

A dual-antenna solution comprising of heading and positioning units, SafePilot CAT MAX is designed to operate independently of the ship's instrumentation. The CAT MAX PPU's communicate seamlessly via Wi-Fi, ensuring a stable and long-range connection with the pilot's display. A Wi-Fi Extender is provided with the system to ensure a stable connection even on the largest vessels. Equipped with a built-in six-axis IMU motion sensor, CAT MAX offers precise rate of turn, roll, and pitch data for accurate maneuvering in confined waters. Additionally, the integrated AIS receiver provides real-time vessel movement monitoring. With wireless charging capability, CAT MAX offers enhanced flexibility in power management compared to traditional cable charging methods.



APPLICATIONS

SafePilot CAT MAX ensures exceptional piloting accuracy with speed down to 1 cm/s and heading down to 0.01°, ideal for navigating and berthing large LNG vessels. Its integrated IMU provides high-accuracy roll and pitch measurements, critical for operations requiring precise under keel clearance.

The system's UHF radio enables seamless data exchange in offshore operations. The CAT MAX can receive RTK corrections from an FSRU, ensuring highly accurate tanker positioning. Other exchanged data includes environmental data, hawser load, and product data (e.g. flow, temperature).

FEATURES

- Completely ship independent
- AIS receiver
- 18 hours of battery life
- Independent heading
- Built-in 6-axis IMU
- Wireless charging
- Low weight <1.2kg
- Spoofing and Jamming Detection
- UHF radio for data exchange
- WiFi-Extender

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

SPECIFICATIONS (RMS)	CAT MAX
Operating temperature range	-10 - 60 °C
Electronic encapsulation	IP67
Baseline	1-40m
Humidity	100 %
Weight	2 x 600g
Size	Ø 125 x 55 mm
Battery capacity	18hours
Antenna	VHF / UHF
AIS receiver	Dual channel built-in
Speed	1 cm/sec (=0.02kn)
ROT accuracy	0.1°/min
Heading accuracy	0.05°(@4m)
Heading precision	0.01°
Roll and pitch sensor	Integrated IMU
Roll accuracy	0.05°
Pitch accuracy	0.05°
Altitude accuracy	3 cm (RTK)
GNSS	GPS/GLONASS/BeiDou, Galileo
POSITION ACCURACY	CAT MAX
RTK	+1cm + 1 ppm
DGPS	0.40 m
SBAS	0.60 m
Stand-alone	1.20 m



PRODUCT	INCLUDED	OPTIONAL
Sling bag		x
Charger	x	
Hard case	x	
Safety lanyard	x	
Universal adapters for charger	x	
Powerbank		x

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