



SafePilot CAT MAX

FEATURES

Our CAT MAX is a dual antenna solution consisting of heading and positioning units. The system is completely independent and does not rely on the ship's instrumentation.

The CAT MAX units communicate with each other and the pilot's display via Wi-Fi, ensuring a stable and long-range connection.

The built-in six axis IMU motion sensor offers precise and independent rate of turn, roll, and pitch, allowing for very accurate predictions when doing turns and navigating in confined waters.

With the integrated AIS receiver, our CAT MAX provides an AIS feed for monitoring the surrounding vessels movements.

Wireless charging allows for greater flexibility in keeping the units powered as an alternative to the traditional charging with cable.

Trelleborg's SafePilot CAT MAX Solution is developed for applications requiring the highest positioning accuracy, for instance, piloting in confined waters, offshore operations.

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APPLICATIONS

For piloting accuracy of position and speed is key. Our CAT MAX 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.

The integrated IMU measures high accuracy and roll and pitch making the CAT MAX the perfect choice for operations where accurate under keel clearance is critical.

Built-in UHF radio allows exchange of information between all parts in the operation, including RTK corrections to the CAT MAX. Combined with the SafePilot software, information may also be exchanged through the SafePilot cloud.

The following are some examples of information exchanged in offshore operations.

- | Environmental Data
- | Hawser Load
- | Product Data (flow, temperature, etc.) | ESD.



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SPECIFICATIONS (RMS)	CAT MAX
Operating temperature range	-10 - 50°C
Electronic encapsulation	IP67
Base line	1-40m
Humidity	100 %
Weight	2 x 600g
Size	Ø 125 x 55 mm
Battery Capacity	12 hours operation
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/OPTIONALLY BeiDou, Galileo

POSITION ACCURACY	CAT MAX
RTK	-1 cm + 1 ppm
DGPS	0.40 m
SBAS	0.60 m
Stand-alone	1.20 m

PRODUCT	INCLUDED	OPTION
Sling bag		x
Charger	x	
Hard Case		x
Safety lanyard	x	
Universal adapters for charger	x	
Powerbank		x

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