星天海洋 STARTEST MARINE

GeoINS

Combine Cubic Guide



Product Overview

Positioning equipment is designed mainly for the multibeam marine mapping field, using three fibre-optic gyroscopes and three accelerometers as inertial elements, using a fast-connected inertial navigation technology programme to support a high-precision satellite orientation system that can provide the multibeam mapping system with a point of flight, arc, arc and argon in real time.

Angular, velocity, position and upwelling information.

The device has small size, light weight, start speed, high accuracy, high reliability

Something like that.

Performance Specifications

Time to prepare.	
Start Time	<5MIN
Working environment and level of protection	
Host working temperature range	—20℃ ~ +60 ℃
Relative humidity	10 ~ 80% RH
Host protection level	IP62
GNSS antenna working temperature range	—50 ℃ ~ +70 ℃
Relative humidity	0 ~ 100% RH

Attitude range and precision indicators

Swinging range	-90° ~ +90°
Swing angle precision	Better than 0.05° (1 x 1)
Shape Range	—90° ~ +90°
Swing angle precision	Better than 0.05° (1 x 1)
The directional angle.	0°~ 360°
Angular accuracy	Better than 0.1° (2M baseline and directed effective)
Course drift rate (after the guard has lost its lock)	Less than 0.5°/H (<60 seconds, lapse is negligible)

Position Precision

Single Point Position Precision	1.5~2m（1σ）
Code differential positioning precision (DGPS)	0.5~2m（1σ）
carrier phase position accuracy (RTK)	Horizontal: 2cm+1ppm, Vertical: 2cm+1ppm
Pure inertial positioning precision (after GNSS is unlocked)	15s position accuracy better than 3m

Heave Accuracy

Heave Accuracy	Better than 5 cm or 5% H (H in band)

Power Supply

Pressure requirements	AC220V±10%，50HZ±6%
Equipment utilisation	Not greater than 30W

Data interface requirements

Data interface requirements	The locator device has a 5-way RS232 series of output.

Positioning device size weight

Component	Dimensions (LxWxH) (2 mm)	Weight
Positioning Hosts	160×160×153	Less than 5KG
GNSS antenna	Φ152×62.2	Less than 0.5 KG

Basic composition of positioning devices

Widget Name	Number	Remarks
Positioning equipment	1	——
GPS antenna	2	——
Antenna pole	2	30 cm length
Antenna Suction	2	——
Antenna feeder	2	TNC interface, 5 m length
Wires and cables	1	Exchange 220V input, converted from adapter to straight current 24V
Data cable	1	Length 5 m

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