星天海洋
STARTEST MARINE



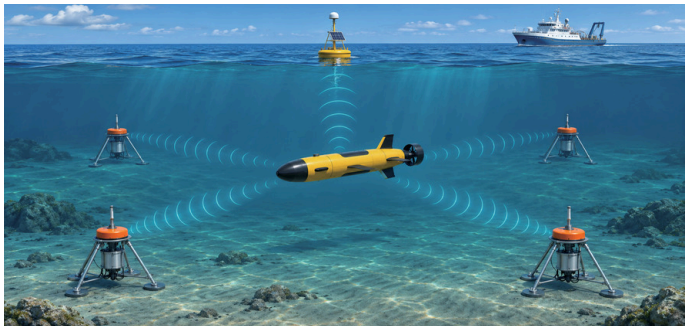
Navigation systems

Smart Acoustic Navigation System

System Overview

The Smart Acoustic Navigation System provides a wide range of real-time navigation services for underwater navigators, with high accuracy, large range and light weight characteristics. Training exercises for water downloaders, unmanned aerial vehicles, and wide range

Undersea mapping, etc.



[System Components]

Widget	Purpose
Navigation terminal	Signal processing and positioning calculations
Surface Navigation Node	Water acoustic signal base.
Underwater Navigation Node	Base for subsea acoustic signals
Underwater navigation node calibration device	Mark the position of the underwater navigation node

[Technical Specifications]

Indicators	Parameters	Indicators	Parameters
Maximum Working Depth	6000 m	Real-time navigation accuracy	Better than 2 m (RMSE)
Maximum range of impact	50 km2 (four navigation nodes)	Navigation update rate	1 Hz
Working bands	10–30 kHz	Apply Object	Manned/unmanned underwater navigators
Working mode	Sync/Step	Extension	Remotely controlled communications

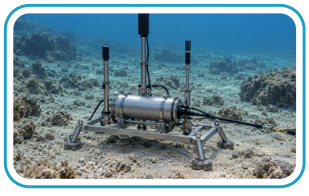
[Applications]



Large-scale seabed mapping



AUV High-Accuracy Navigation



Scientific research



Special areas

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