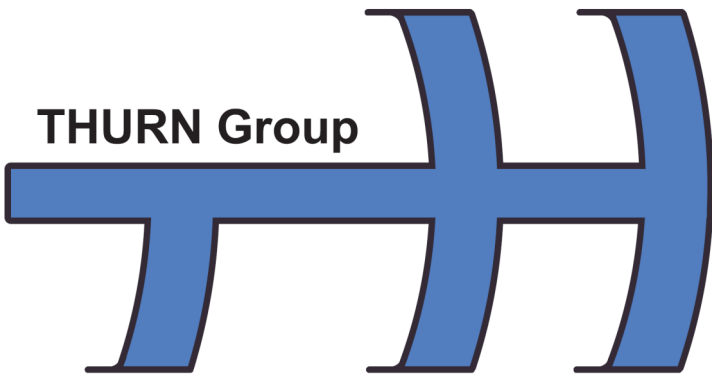


THURN Group



OceanAlpha SL20 small scale survey

A fully autonomous USV-carried survey and hydrography system for rapid low-logistics surveying in dams, rivers and coasts. Suitable for deployment in shallow and high speed waterways.



This integrated Thurn system is available with a turn-key single beam and side scan solution for autonomous or remote-controlled collection of depth and sonar imagery. Using single frequency or dual frequency echosounders, the Imagenex yellowfin OEM side scan and an SBG 3rd generation dual-antenna motion and positioning sensor.

Recording and viewing data has never been easier with the new HYPACK OFFICE software. Coupled with an easy to

launch, compact and robust survey vessel means low-logistics deployments and recoveries. Surveys have never been safer!

The OceanAlpha SL20. A 1.1m long unmanned survey vessel weighing less than 25kg, perfect for work in closed and protected saltwater and inland environments such as ports, harbours and rivers.

Benefits:

- Autonomous map-based survey patterns ensuring full coverage of larger areas
- Quick set up for survey operations
- Individualised incident projects
- Increased situational awareness and safety of operations

Applications:

- Ports, Harbours and Dredging
- Underwater Archaeology
- Sunken Timber Recovery
- Search & Recovery
- Surveying
- Law Enforcement Work
- Scientific Research
- Environmental Survey

Key Features

Self-contained integrated USV survey system. Can be supplied with an SL20 or fitted to an existing USV asset	Automated survey patterns enable sensitive change detection due to surveys being easily repeatable	Optional real time display of the data provides immediate feedback for the survey team to ensure that the entire area has been covered
Options for single frequency or dual frequency echosounders	All survey data is stored on board USV to allow post-mission analysis of the survey	Reliably survey shallow and high speed waters

SL20 Specifications:

Hull Material	Carbon fiber
Dimension	(L)105 cm *(W)55 cm *(H)35 cm
Weight	17 kg
Payload	8 kg
Draft	15 cm
Propulsion	Water-jet propulsion
Communication Range	Autopilot: 2 km Remote Control: 1 km
Max. Speed	10 knots (6 m/s)
Battery Life	6 hours @1.5 m/s



Ekinox-D

All-in-one INS/GNSS

Ekinox-D is an all-in-one Inertial Navigation System with integrated RTK GNSS receiver ideal for applications where space is critical.

This advanced INS/GNSS with one or two antennas and provides orientation, heave, and centimeter-level position.



Positioning options:

Ellipse-D

Dual Antenna RTK INS

Ellipse-D is the smallest Inertial Navigation System integrating a Dual-antenna, multi-band GNSS receiver, capable of delivering precise heading as well as centimeter level position accuracy in the most challenging GNSS conditions. It provides attitude, heading, heave as well as navigation outputs.



E: sales@thurngroup.com

T: +44 (0) 1493 754 032

W: www.thurngroup.com

A: Ubnit 8, Damgate lane Ind. Est.,

Acle, Norwich, NR13 3DJ, UK

