


 The logo for THURN Group is a stylized blue 'TH' symbol. The 'T' has a horizontal bar that extends to the right, where it meets the vertical stem of the 'H'. The 'H' has two vertical stems that curve slightly outwards at the top and bottom.

THURN Group

OceanAlpha SL40 water sampling USV

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



This THURN System provides all the tools for your USV sampling requirements. Supplied with a range of different marine sensors all of which come fully integrated. This system was designed to enable remote surveys, keeping people out of the water and minimising risk. This decreases survey time and enables sampling in previously inaccessible

and dangerous waters. With easy to use industry standard software options this will help solve your water management and safety problems. The software will track and display the position of the USV in real-time, with a real-time data feed option.

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:

- Waterway management
- Watershed management and monitoring
- Chlorophyll and Cyanobacteria Measurement
- In-river construction site risk monitoring

Key Features

Self-contained integrated USV Profiler system. Can be supplied with an SL40 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 from the survey team to ensure that the entire area has been covered

Options for YSI, Eureka or Manta+ marine sensors

All search data is stored to allow post-mission analysis of the search to assist in reporting and improve search operations

Reliably survey shallow and high speed waters

The BBE-Moldaenke AlgaeTorch

Chlorophyll and Cyanobacteria Measurement. The quick-and-easy portable measuring instrument. Switch on, dip in, read off!. The BBE AlgaeTorch is a handy instrument for the measurement of microalgae and cyanobacteria in all types of water.

Manta Plus

The Manta family offers up to 12 sensors in one integrated package. Each Manta sensor comes standard with a weighted sensor guard, storage and calibration cups, temperature sensor, embedded memory for internal logging, marine connector, electronic manual, MantaManager software and standard three year warranty.

EXO3 Multiparameter Sonde

Multiparameter Water Quality Sonde with 5 sensor ports (including a central wiper port), optional depth sensor, and battery compartment

SL40 Specifications:

Hull Material	Carbon fiber
Dimension	(L)160 cm *(W)70 cm *(H)40 cm
Weight	35 kg
Payload	15 kg
Draft	15 cm
Propulsion	Electric water-jet propeller
Communication Range	Autopilot: 2 km Remote Control: 1 km
Max. Speed	12 knots (6 m/s)

Valeport Swift SVP

Now rated to 500m as standard with 0.01% FS accuracy, it has integral GPS to geo-locate every profile. This new compact unit features high accuracy SV, Pressure and Temperature as normal, and adds integral GPS, re-chargeable battery, LED status indications for GPS, battery and communications.

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