
STR SeaCast

The STR SeaCast provides a real-time sound velocity profiling solution for deployment from a moving vessel. The system uses a fully closed loop control system to ensure accurate and reliable deployment to required depth, seabed avoidance technology is used to ensure safe deployment.

Real-time Sound Velocity data is provided by the system, maximising confidence that the SV cast has been successful. The transparent serial data comms also supports Industry standard Sound Velocity, CTD & Environmental sensors.

The SeaCast minimises operational downtime, by allowing profiling to be undertaken while the vessel is in motion. Deployment and recovery time is much improved, with the compact design allowing for operation on small vessels. Native integration for remote functionality allows the SeaCast to be remotely operated, supporting utilisation of lean crewed vessels and automated surface vessels, increasing employee safety.



Key Features

- Real-time sensor data
- Supports industry standard SV, CTD + environmental sensors
- 500 m deployment cable
- High speed operation
- Closed loop depth control
- Seabed avoidance sensor
- Software control

Key Benefits

- Optimises vessel operations; **reduces vessel downtime** by eliminating the need to recover survey equipment between deployments.
- **Operational versatility – Suitable for both manned and unmanned vessels** allowing your investment to go further.
- **Reduced risk exposure** as it's capable of functioning fully autonomously or with partial manual control, adapting to operational needs.
- Requires **minimal maintenance** with a streamlined spares package, maximising operational efficiency.
- **Enabling cost effective solutions**, improving project performance, operational versatility, and profitability due to reduced downtime.

TECHNICAL SPECIFICATIONS

PROPERTIES	DESCRIPTION
Components	<ul style="list-style-type: none"> • Compact winch unit • Armoured towable • STR Multisense - subsea comms hub with depth, attitude & altitude control • SV sensor interface • Remote operation • Software user interface
Power Input	500 W 220 V AC
Winch Size	0.56 x 0.56 x 0.62 m (H x W x D)
Winch Weight	50 kg
Deployment Cable	500 m of 2.57 mm armoured cable
Operational Depth	Up to 500 m
Deployment Time	3 min @ max speed & full depth
Recovery Time	6 min @ max speed & full depth
Safety Features	<ul style="list-style-type: none"> • Enclosed moving parts • Remote operation • Seabed avoidance • Low voltage towable • Alarm
User Interface	STR SeaCast software package supports live data gathering & analysis, automated winch control, deployment profiles and schedules
Supported Sensors	Supplied with Valeport uvSVX as standard, compatible with industry standard SV, CTD & environmental sensors
Comms	FSK towable comms with transparent RS232 sensor link