

SEA MACHINES 300

Autonomous control for commercial vessels



RETROFIT-READY TECHNOLOGY

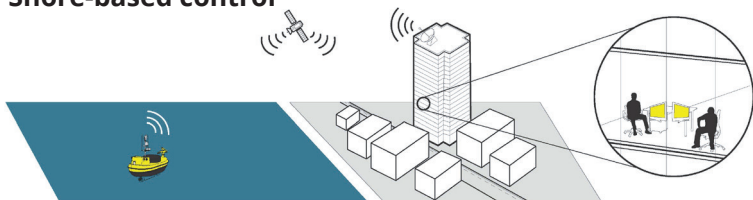
- Control via autonomy computer
- Intuitive user interface for remote operator
- Payload control & stream-from-ship data
- Communication, via line-of-sight or over-the-horizon

SEA MACHINES 300 CONTROL INTERFACES

Shipboard control



Shore-based control



Optional backpack remote-helm control add-on available.



SEA MACHINES

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ONBOARD CABINET



Intelligent Control Hub with Flexible Sensor Integration

Primary Hardware	Description
Cabinet Enclosure	IP65 Rated Industrial-Grade, Stainless Steel
Processors	Siemens S7 PLC, Industrial Linux Computer
Dimensions	20 x 20 x 8.80 inches (50.8 x 50.8 x 22.35 cm.)
Weight	65 lbs. (29.48 kg)
User Interface (Local)	Siemens 9 inch Touch Screen HMI
Components	100% Solid State, Ruggedized
Certifications	By most recognized authorities (ABS, DNV)
Temperature Rating	0-60° C
Integrated Machinery	Compatibility
Engines	Electronic or Mechanical
Steering	Electronic or Hydraulic
Transmission	Clutch & Gear Control
Auxiliaries	Per Operator Requirements
Integrated Sensors	Sensor Input
Differential GPS	Position, Heading, COG & SOG
AIS	Ship Traffic Sensor
Radar	ARPA Targets
Image/Video	Multiple Cameras
Depth Sounder	Sounder Feed
Payload Control	Applications
Sonar	Survey
Winches / Loading	Tugs / Aquaculture
Davit / Crane	Equipment Deployment
ROV	Research, Mining, Recovery
Moonpool	Equipment Deployment

REMOTE USER INTERFACE



Rugged Intuitive Interface & Control Devices

User Interfaces	Component Type
Graphical Remote User Control	Ruggedized Laptop with Aux Screens
Autonomous Modes	Capabilities
Planned Route	Grids, Patrol, Dynamic
Collaborative	Escort / Synchronized Ops
Waypoints	Planned Routing or Dynamic
Safe Routing	ECDIS Integrated
Obstacle Avoidance	Multi Sensor Detection
Communications	Type
Inshore / Nearshore	IP Radio, 4G/LTE
Ship-to-Ship	IP Radio
Long Range (>5nm)	Satellite (L-band, VSAT KU, KA)
Machinery Parameters	Commands & Alarms
Engine Start/Stop	Remote Start / Stop
RPM	Throttle Command
Engine Temp / Engine Oil Pressure	Engine Alarms / Faults
Gear Oil Pressure	Pressure Alarms
Fuel Oil	Tank Levels
Angle Indicator	Degrees PRT/STBD
Interruptions	Safety Devices
Loss of Communications	All stop, Hold Station, Other
Manual Emergency Stop	ALL STOP on all interfaces
Failure Modes	Pre-programmed or customized

Installation support

For new-build or retrofit applications, work with our qualified team and a network of installers to create a solution for your mission.



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