

SEA MACHINES 300

Autonomous control for commercial vessels



RETROFIT-READY TECHNOLOGY

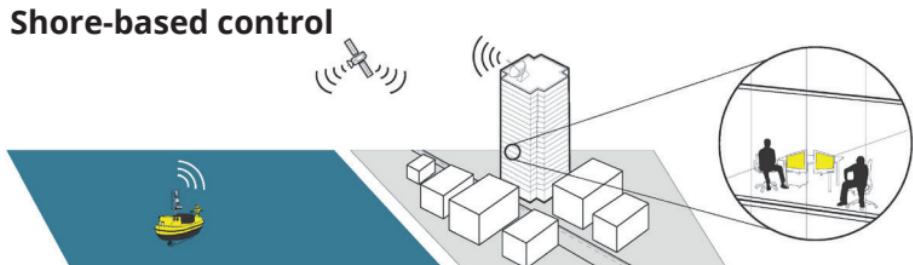
- Control via autonomy computer
- Intuitive user interface for remote operator
- Payload control & stream-from-ship data
- Communication, via line-of-sight or over-the-horizon

SEA MACHINES 300 CONTROL INTERFACES

Shipboard control



Shore-based control



Optional beltpack 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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