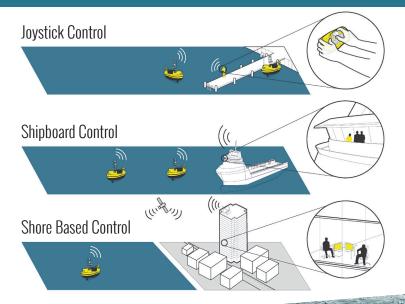
SEA MACHINES 300

AUTONOMOUS CONTROL SYSTEM FOR COMMERCIAL VESSELS



- · Control via autonomy computer or joystick
- 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





SEA MACHINES 300

ONBOARD CABINET

Intelligent Control Hub with Flexible Sensor Integration

Primary Hardware	Description
Cabinet Enclosure	IP67 Rated Industrial Grade Aluminum
Processors	Siemens S7 PLC, Industrial Linux Computer
UI (Local)	Siemens HMI Touch Panel
Components	100% Solid State, Ruggedized
Certifications	By most recognized authorities (ABS, DNV)
Temperature Rating	0-60° C
Machinery Integration	Compatibility
Engines	Electronic or Mechanical
Steering	Electronic or Hydraulic
Transmission	Clutch & Gear Control
Auxiliaries	Per Operator Requirements
Sensor Integration	Sensor Input
Differential GPS	Heading and Position
AIS	Ship Traffic Sensor
Radar	ARPA Feed
	71111 711 000
Image/Video	Optional 360° Camera
Image/Video Depth Sounder	Optional 360° Camera Sounder Feed
U	
Depth Sounder	Sounder Feed
Depth Sounder Payload Control	Sounder Feed Applications
Depth Sounder Payload Control Sonar	Sounder Feed Applications Survey
Depth Sounder Payload Control Sonar Winches / Loading	Sounder Feed Applications Survey Tugs / Aquaculture
Depth Sounder Payload Control Sonar Winches / Loading Robotic Arm/Crane	Sounder Feed Applications Survey Tugs / Aquaculture Equipment Deployment

REMOTE USER INTERFACES



Rugged Intuitive Interface & Control Devices

User Interfaces	Component Type
Graphical Remote User Control	Ruggedized Laptop with Aux Screens
Direct Vessel Control	Industrial Joystick Controller
Autonomous Modes	Capabilties
Planned Route	Grids, Patrol, Dynamic
Collaborative	Escort, Swarm, Synch
Waypoints	Planned Routing or Dynamic
Safe Routing	ECDIS Integrated
Obstacle Avoidance	Multi Sensor Detection
Communications	Туре
Inshore / Nearshore	IP Radio, 4G/LTE
IP Radio 3/5 Ghz	IP Radio 5Ghz
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
Gear Oil Pressure Fuel Oil	Pressure Alarms Tank Levels
	11000010111011110
Fuel Oil	Tank Levels
Fuel Oil Angle Indicator	Tank Levels Degrees PRT/STBD
Fuel Oil Angle Indicator Interruptions	Tank Levels Degrees PRT/STBD Safety Devices



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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