Autonomous Oil Spill Recovery Platform

MC4000

MC4000 provides a zero-emissions, sustainable solution for harbor monitoring and oil spill management. Using real-time detection, it autonomously activates an oil skimmer for rapid response. Equipped with radar and camera systems, it navigates safely and seamlessly in busy port environments.
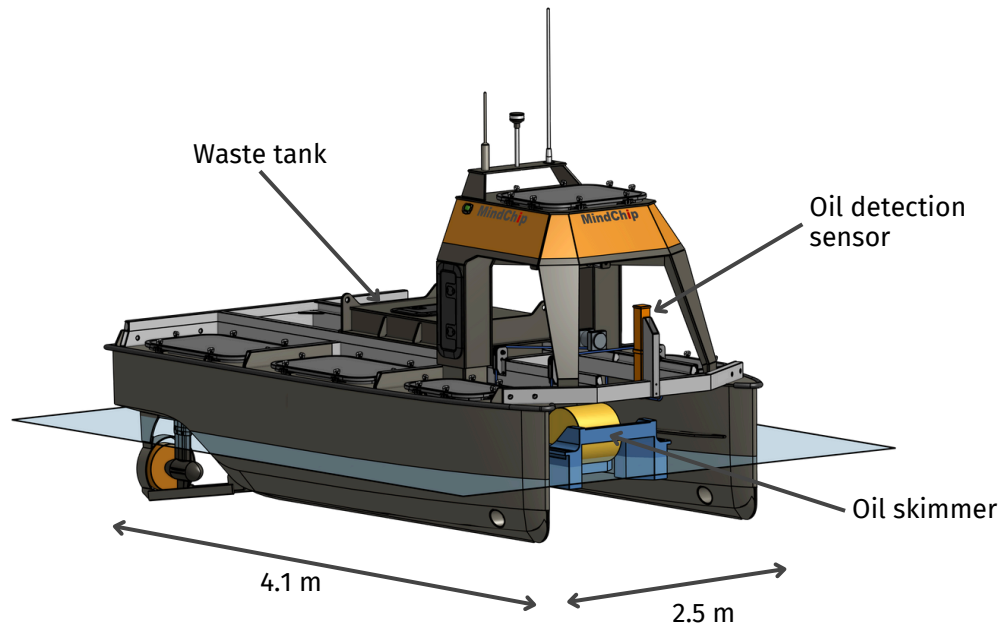
www.mindchip.ee/mc4000

Phone: +372 5264 992
e-mail: info@mindchip.ee

MindChip

Waste tank

Oil detection sensor

Oil skimmer

4.1 m

2.5 m

Robust Situational Awareness

Advanced algorithms enable safe navigation by detecting and avoiding obstacles in real time.

Mission Planning and Scheduling

Integrates seamlessly into existing workflows, enhancing efficiency and reducing operational costs.

Technical Specifications

Length: 4.1 m
Breadth: 2.5 m
Draught: 0.4 m
Operational speed: 3 kn
Endurance at 3 kn: 8 hr
Battery pack: 1200 Ah, 28 kWh
Connectivity: 4G, 433 MHz, WiFi
Situational awareness: AIS, mmWave radar, cameras
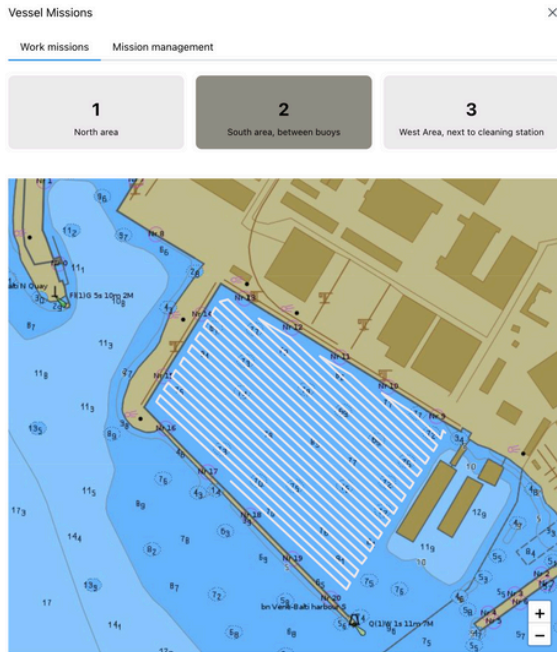Payload: oil skimmer, oil sensor, SOPEP socks, tank 300 l

Remote Monitoring and Control

A multichannel communication setup ensures stable, secure connections for reliable performance across diverse maritime environments.

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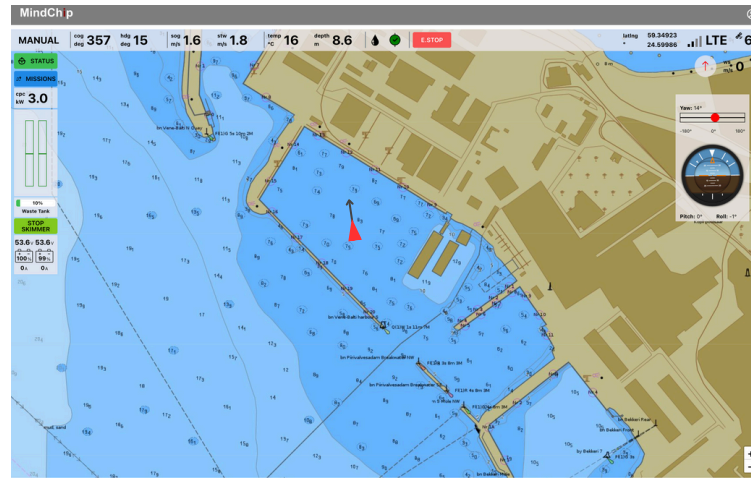Phone: +372 5264 992
e-mail: info@mindchip.ee

Mission Management

Plan, schedule, and manage missions with an intuitive interface. Customize routes, set precise timings, and scale to meet varying operational needs.
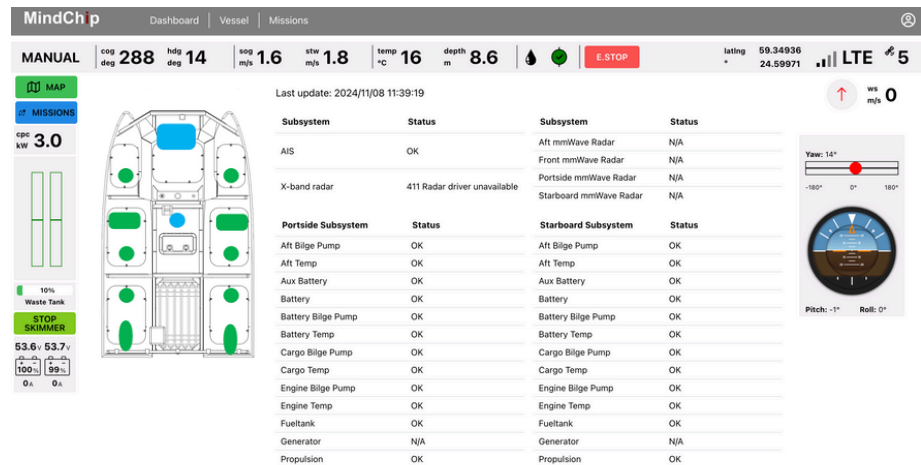
Web-Based Control Station

Access the vessel remotely for mission management and monitoring, with a detailed map view of its location, path, and surroundings. Real-time telemetry and HD video streams offer a comprehensive, live overview of vessel status.

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Operator View

Gain full access to vessel telemetry data, with the flexibility to switch between autonomous and manual modes. Maintain complete situational awareness with alerts for course changes and system malfunctions, ensuring safe and efficient operations.