

MindChip

Artificial Captain

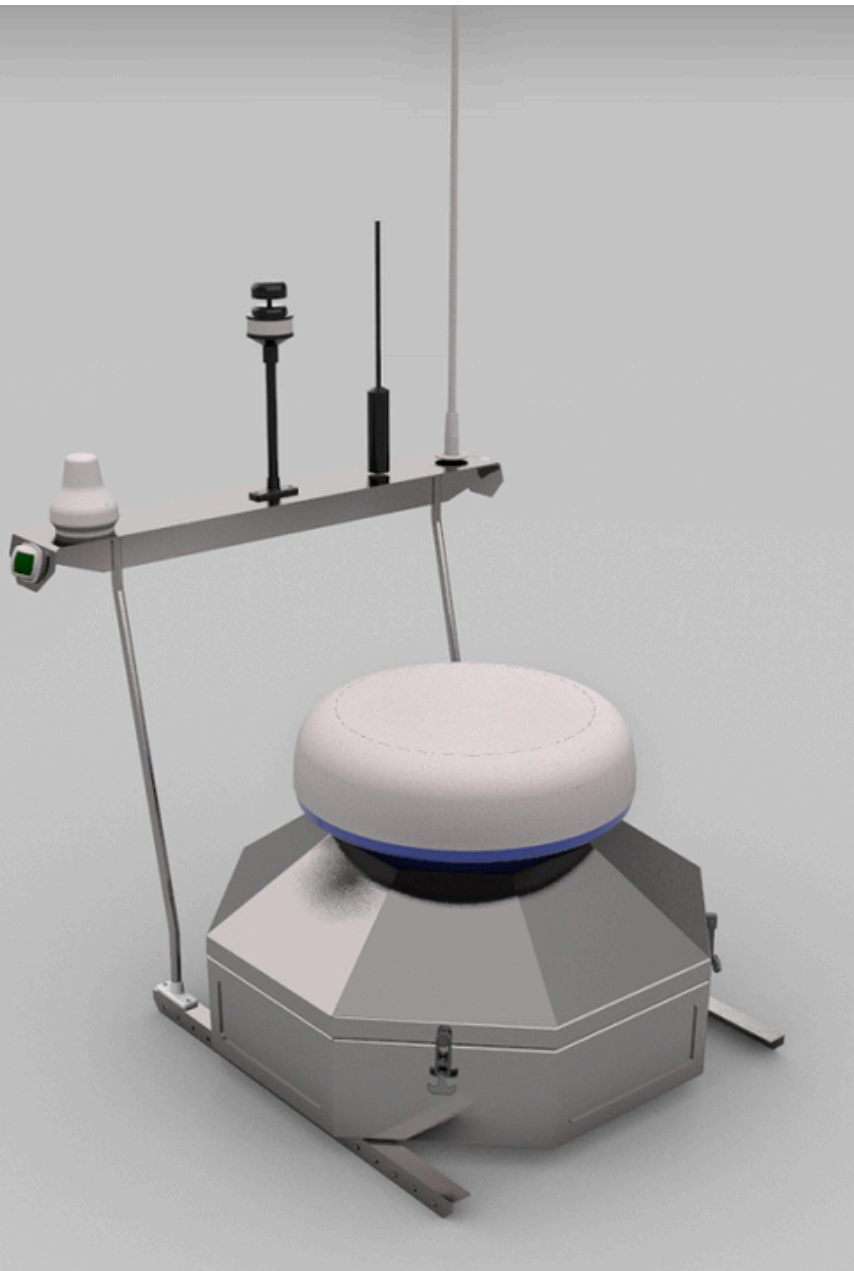
Intelligent Navigation & Situational Awareness for Autonomous and Manned Vessels

Artificial Captain, developed by MindChip and TalTech, delivers a comprehensive real-time view of maritime surroundings for enhanced situational awareness on both autonomous and manned vessels. By integrating radar, AIS, and camera data, it detects and tracks objects with precision, ensuring safe navigation.

With effortless remote control and plug-and-play autonomy, Artificial Captain transforms any vessel into a smart, self-sufficient powerhouse.

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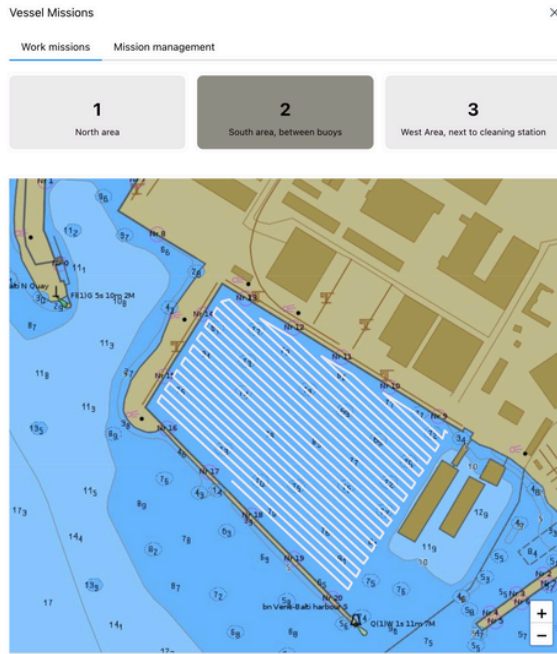


Advanced Navigation & Control

- Far- & near-field object detection
- 360° vision
- Remote control & distant monitoring
- COLREG-based navigational decisions & control
- Ethernet or WiFi connection to ship control systems
- Customized interface controller to communicate with ship control systems

Sensors & Communications

- AIS (class B)
- X-band maritime Radar (up to 36 nm range)
- 4x mmRadar (up to 100 m range)
- GPS module
- 4G, WiFi, satellite communications
- 13 cameras (4x machine vision, 8x distance measurement, 1x 360°PTZ)



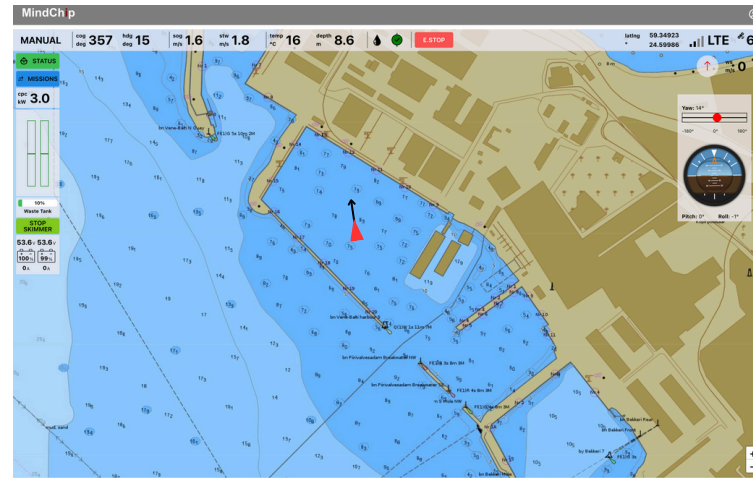
Mission Management

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

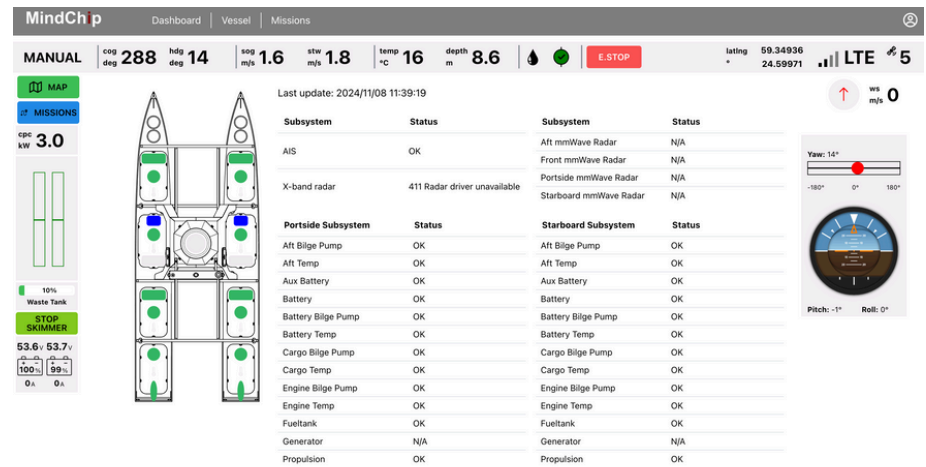
Web-Based Control Station

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.