

Convert your Vessel to an Autonomous Naval Drone

SKIPPER aims to enhance nautical safety and efficiency by minimizing human intervention. DanaDynamics is a Danish maritime tech company specializing in developing autonomous navigation systems for maritime drones and smaller vessels.

Benefits:

- Increases crew safety
- Optimizes resource utilization
- Allows repetition of predefined sailing patterns
- Scalable technology
- A complete turnkey retrofit system or as an integrated system during new construction



SKIPPER: An Autonomous Navigation System for small to medium size Crafts and RIB Boats

DanaDynamics SKIPPER is an autonomous navigation system that integrates with various nautical systems and can work as an advanced auto-pilot. The system scales toward full autonomy and when installed on a standard RIB boat, it can transform into an autonomous drone.

Key Features:

- The vessel can safely navigate autonomously on a pre-defined mission without human intervention.
- The system can be integrated into the propulsion system.
- The operator has real-time data and visual feedback from the system.
- The operator on land always has the option to take control of the vessel and modify the mission if needed.
- Collision avoidance is achieved using sensor technology.
- Navigation data, real-time video, and mission data are transmitted to the operator via a communication module and can also be stored locally on board.



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PAYLOAD OPTIONS:

SKIPPER can serve as a communication uplink for payloads connected to the RIB. Data integration can be further developed for specific payloads e.g.:

- Mine detection
- Search and rescue operations
- Collection of survey data



SKIPPER comes in a standard aluminum container that can be attached to the deck of the RIB. It has a mast that comprises a radar, camera rig, LIDAR, and antennas for AIS/VHF, GPS, and SAT-COM. The autonomy module can include its own power unit and weighs approximately 100 kg, not including batteries.

- Footprint: 60cm x 60cm
- Mast
- Lifting eve
- Weight: 100 kg excluding batteries
- Power supply: Li-Ion 4kWh, 40 kg
- Possibility to connect to an external power supply
- Operating time: 24 hours, depending on power supply and propulsion system
- The system can receive and transmit data using standard network protocols
- The system uses advanced end-to-end data encryption protocols.

SKIPPER integrates with selected electric propulsion systems and is prepared for integration with combustion engines combined with additional actuation units.

GAIN AN ADVANTAGE WITH ADVANCED AUTONOMY:

With a maritime autonomous navigation system, your naval unit can leverage the latest technology and achieve a significant enhancement in the ability to conduct naval missions.

The system enhances safety, improves operational efficiency, and provides a competitive edge in modern automated naval defense missions.

CONTACT US:

Learn more about our maritime autonomy system and how it can support and strengthen your missions.



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