MARLiN ISR 100

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UNMANNED SURFACE VESSEL SWARM

#UnmannedSystems

SWARM OPERATIONS
10+ HOURS ENDURANCE
40+ KTS SPEED
HIGH MANEUVERABILITY
RF COMMUNICATION & SATCOM CONTROL
AUTONOMOUS OPERATION

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UNMANNED SURFACE VESSEL SWARM

MARLİN ISR 100 is an unmanned surface vessel swarm system with a high level of autonomy, capable of navigating and performing tasks in swarm formation independent of a central control.

MARLİN ISR 100 is capable of performing different swarm formations, and has the ability to continue its mission against the decrease in the swarm by avoiding swarm elements and moving or stationary obstacles. Autonomous sharing of the given task among the swarm elements is made. The mission can be performed autonomously with different maneuvers.

General Features

- Autonomous Navigation and Tasking Solo or Swarm
- Avoiding Fixed/Moving Obstacles and Creating a New Route
- High Speed and Maneuverability
- Navigation Radar
- Anti-Jam GNSS

Autonomy Features

- Autonomous Mission Planning and Task Distribution
- Sensor Fusion
- Flexible and Extensible Swarm Architecture
- Fixed/Moving Obstacle Detection and Dynamic Route Planning
- Autonomous Operation Capability in GNSS Denied Areas and Communication Interruption

Technical Features

- Length : 7.2 m
- Width : 2 m
- Weight : 1955 kg
- Max. Speed : ≥ 40 kts
- Endurance : ≥ 10 hrs
- Propulsion System : 300 HP Diesel Engine
- Payload Capacity : ≥ 250 kg

Communication Systems

- Mesh RF
- Satellite
- 4G / LTE

Control Console

- Portable
- Autonomous Mission Planning / Execution
- Live View/ Record

Operational Capabilities

- Intelligence, Surveillance and Reconnaissance
- Engaging the Target with a Single or Multi-Boat
- Base, Port and Coast Security

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