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ALBATROS-S

UNMANNED SURFACE VESSEL SWARM

10 HOURS ENDURANCE

40 KTS SPEED

HIGH MANEUVERABILITY

RF COMMUNICATION & SATCOM CONTROL

AUTONOMOUS OPERATION

USV SWARM NAVIGATION AND OPERATION



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ALBATROS-S

UNMANNED SURFACE VESSEL SWARM

ALBATROS-S 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.

ALBATROS-S 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 terminated autonomously with different maneuvers.

General Features

- Autonomous Navigation and Tasking Solo or Swarm
- Avoiding Fixed and Moving Obstacles and Creating a New Route
- High Speed and Maneuverability
- Low Radar and Infrared Cross Section
- Navigation Radar
- Anti-Jam GNSS System

Autonomy Features

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

Technical Features

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

Communication

- Mesh RF Communication System
- Satellite Communication System
- 4.5 G / LTE Communication System

Control Console

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

Applications

- Reconnaissance and Surveillance Intelligence
- Engaging the Target with a Single or Multi-Boat
- Coast Guard Patrol and Offensive
- Port Defense