TUFAN

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KAMIKAZE UNMANNED SURFACE VEHICLE

#UnmannedSystems

SWARM OPERATIONS
HIGH EXPLOSIVE INSENSITIVE WARHEAD
50 KTS SPEED
HIGH SPEED AND MANEUVERABILITY
LOW RCS & IR SIGNATURE
ADVANCED SITUATIONAL AWARENESS AND AUTONOMY CAPABILITY

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KAMIKAZE UNMANNED SURFACE VEHICLE

TUFAN is a Kamikaze Unmanned Surface Vehicle (USV) capable of carrying an insensitive high-explosive warhead, conducting swarm-based operations, and equipped with advanced situational awareness and autonomous mission capabilities.

TUFAN can form subgroups to accomplish different missions and asymmetric attack formations. It can perform avoidance maneuvers from moving and stationary obstacles and has AI/image-based target detection and engagement capabilities.

TUFAN is equipped with advanced communication and positioning systems; also, can operate uninterruptedly under Communication / GNSS denied environments.

General Features
- High Speed and Maneuverability
- Low Radar Cross Section (RCS) and Thermal Signature
- Flexible and Enlarged Swarm Formations
- STANAG 4817 Compatible

Autonomy Features
- Autonomous Mission Planning and Task Distribution
- Sensor Fusion
- Solo or Swarm Autonomous Missions
- Fixed or Moving Obstacle Detection and Dynamic Path Planning
- Day / Night Operation Capability
- Operations under GNSS and communication denied environment
- AI/Image-Based Engagement and Attack Capability

Technical Features
- Width : 1.8 m
- Length : 8 m
- Max. Speed : ≥ 50 kts
- Operational Range : 200 NM
- Propulsion System : Gasoline Engine & Water Jet

Communication Systems
- RF Line-Of-Sight / Mesh Network
- Satellite (BLOS)
- 4G / LTE

Control Console
- Portable Control Console / Display Unit
- Mission Planning / Execution
- Real Time Image Transfer and Data Recording

Operational Capabilities
- Transportation to the Mission Area from Port or Launching Platforms
- Joint Operations with Other Manned/Unmanned Platforms
- Integrated Operations with C2 Systems

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