

AEROMAC

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AEROMAC



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**AUTONOMY BEYOND
THE HORIZON**



aeromac electronic.com

ADVANCED FEATURE OF AI-DRIVEN MARINE AUTONOMY

Artificial Intelligence

We develop cutting-edge machine learning and deep learning algorithms covering a wide spectrum of applications.

Software Technologies

We create the essential software tools, frameworks, and services used by our solutions and our engineers alike.

Hardware & Embedded Systems

We design proprietary electronic and mechanical hardware units for harsh environments defined by industrial, automotive and military standards.

Robotics

Our expertise extends across various platforms, including wheeled and tracked vehicles, drones and surface vessels.

Autonomy

We provide an universal approach to self-driving for all vehicles and challenging conditions.

Intelligence, Surveillance and Reconnaissance

We provide autonomous awareness and actionable intelligence with day/night surveillance.



AEROMAC is developing cutting-edge technological solutions for maritime autonomy and surveillance with its partners.



Our mission is to revolutionize naval operations by integrating advanced AI-driven systems that enhance the performance, efficiency and safety of both manned and unmanned vessels.



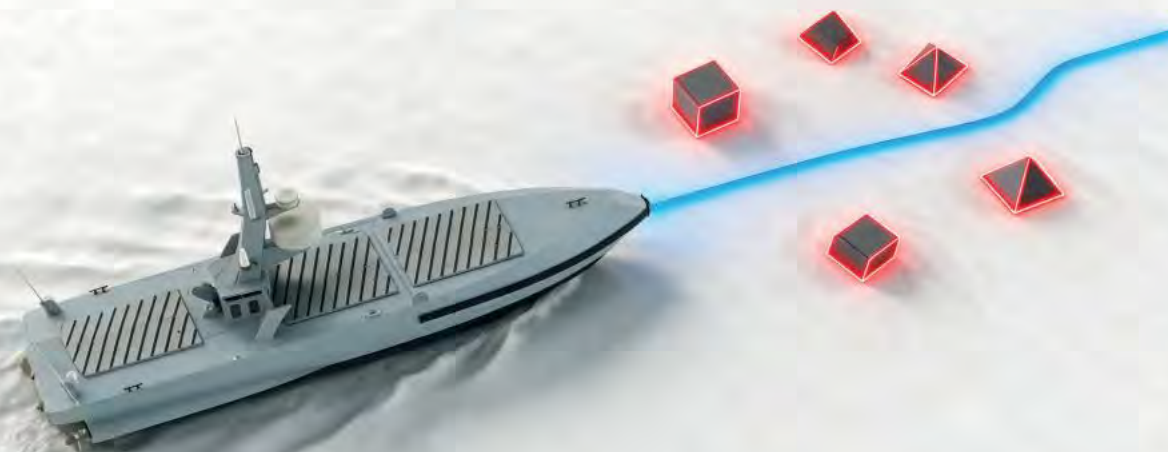
These solutions are designed to address a wide range of operational challenges, ensuring mission success even in the most complex and dynamic environments.



Each system leverages AEROMAC's expertise in AI, robotics and sensor fusion to provide a seamless, integrated approach to vessel autonomy, navigation and surveillance - laying the foundation for future naval and commercial maritime operations.



AEROMAC SEA-STRIKE (SS) KAPTAN AI



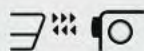
AEROMAC provides an indigenous, advanced AI-based marine autonomy solution capable of integrating unmanned surface vehicles and designed for various types of marine vessels. This system enables safer and more efficient maritime operations even under challenging conditions.



We offer Advanced Features of AI-Driven Marine Autonomy with our Sea Strike USV product family. Our USV features, highlighted by its AI capabilities, are as follows.



Autonomy & Navigation
Assistance



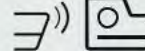
Autonomous Docking



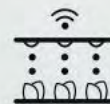
TeleOps - Remote
Control (LOS/NLOS)



COLREG
Compatibility



Collision Warning
and Avoidance



Swarm Operations



Retrofitting, Modularity
& Adaptability



Emergency
Scenarios



Mission, Route &
Waypoint Planning

We Focused on 9 Basic Systems in Maritime Autonomy

**ANTI SUBMARINE WARFARE
(SS-ASW)**

AMPHIBIOUS WARFARE (SS-AMPH)

**MINE COUNTER MEASURE
OPERATIONS (SS-MCM)**

ANTI SURFACE WARFARE (SS-SURF)

AIR DEFENCE WARFARE (SS-AIR)

**ELECTRONIC WARFARE
OPERATIONS (SS-EW)**

**EXPENDABLE (SS-DART K-USV)
(KAMIKAZE)**

**PATROL, SURVEILLANCE & SIGNAL
INTELLIGENCE (SS-PSS)**

**UNMANNED SURFACE
TARGET BOAT (SS-TARGET)**



AEROMAC SEA-STRIKE (SS) UNMANNED SURFACE VEHICLES (USV)

SS Multipurpose USV



Technical Specifications

↔ **Length Overall** : 14,60 m

↔ **Beam** : 4,30 m

🌊 **Draught** : 0,76 m

🕒 **Speed** : 40 kts +

📦 **Hull Material** : Aluminum Hull / Cabin

🚢 **Propulsion** : Jet Drive / Stern Drive

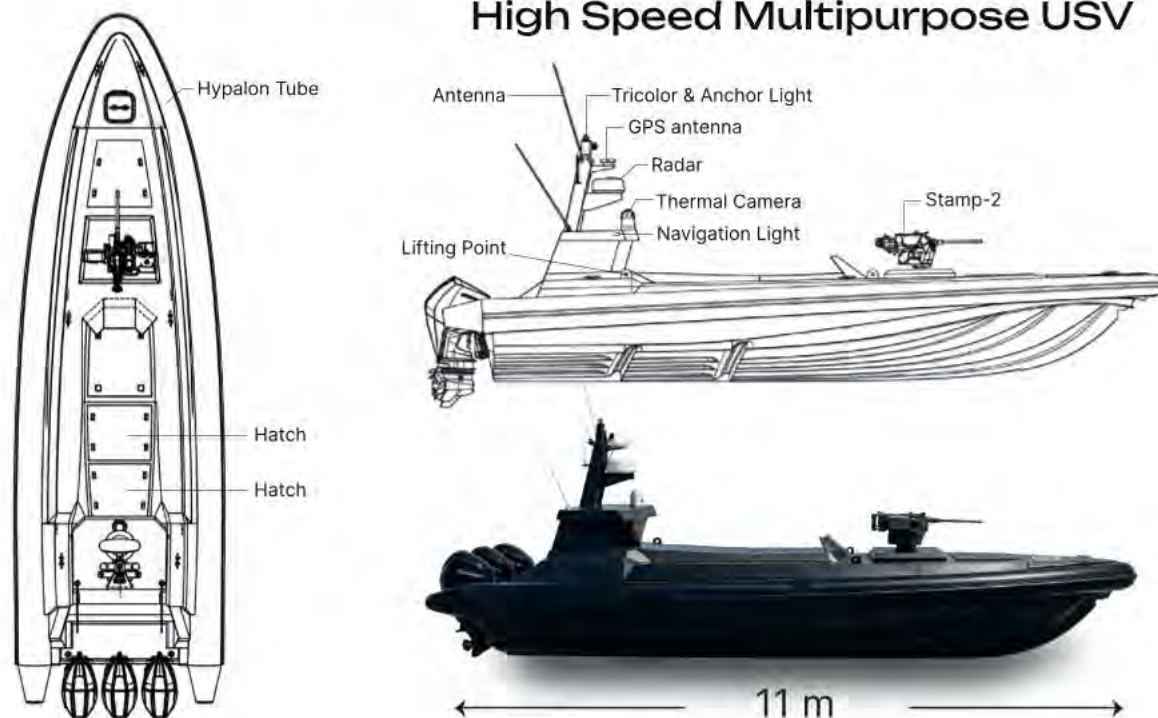
With the 14.6-meter multipurpose USV, we can conduct the main types of naval operations, including:

- | | |
|--|---|
| ⚓ Anti Surface Warfare (SS-SURF) | ⚓ Air Defence Warfare (SS-AIR) |
| ⚓ Anti Submarine Warfare (SS-ASW) | ⚓ Amphibious Warfare (SS-AMPH) |
| ⚓ Electronic Warfare Operations (SS-EW) | ⚓ Mine Counter Measure Operations (SS-MCM) |



AEROMAC SEA-STRIKE (SS) UNMANNED SURFACE VEHICLES (USV)

High Speed Multipurpose USV



Technical Specifications

Length Overall : 11 m

Beam : 2,40-2,60 m

Draught : 0,55 m

Speed : 60-65 kts +

Hull Material : FRP

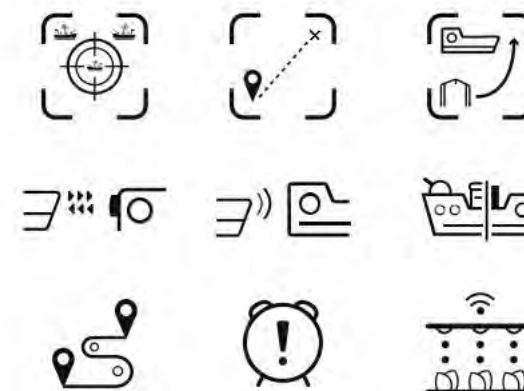
Propulsion : 3 × 350 HP Gasoline Outboard

FPV Type Kamikaze Drone Integration

1000 Kg Marine type (IP-67 protection)
special explosive with increased effect
for K-USV

The 11.4 m multipurpose USV supports key naval operations, including:

-  Anti Surface Warfare (**SS-SURF**)
-  Air Defence Warfare (**SS-AIR**)
-  Anti Submarine Warfare (**SS-ASW**)
-  Amphibious Warfare (**SS-AMPH**)
-  Electronic Warfare Operations (**SS-EW**)
-  Mine Counter Measure Operations (**SS-MCM**)
-  Expendable (**SS-DART K-USV**)
(**Kamikaze**)
-  Patrol, Surveillance & Signal Intelligence (**SS-PSS**)
-  Coast Guard Operations (**SS-CG**)



AEROMAC SEA-STRIKE (SS) UNMANNED/ MANNED SURFACE VEHICLES (USV)

 **Class Society:** CE/C



Technical Specifications

 **Length Overall :** 10,80 m

 **Beam :** 3,70 m

 **Draught :** 0,60 m

 **Speed :** 60 kts +

 **Hull Material :** FRP

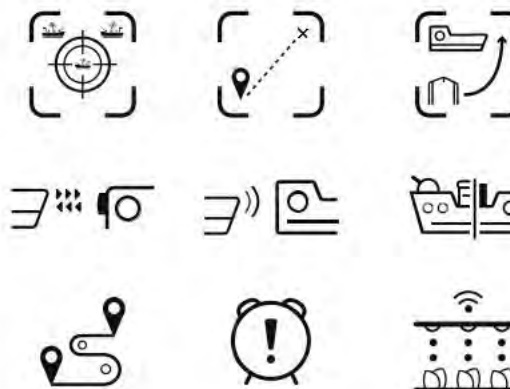
 **Propulsion :** 2 × 450 HP Gasoline Outboard

 **FPV Type** Kamikaze Drone Integration

 **1000 Kg** Marine type (IP-67 protection)
special explosive with increased effect
for K-USV

The 10.8 m multipurpose USV supports key naval operations, including:

- | | |
|--|--|
|  Anti Surface Warfare (SS-SURF) |  Air Defence Warfare (SS-AIR) |
|  Anti Submarine Warfare (SS-ASW) |  Amphibious Warfare (SS-AMPH) |
|  Electronic Warfare Operations (SS-EW) |  Mine Counter Measure Operations (SS-MCM) |
|  Expendable (SS-DART K-USV)
(Kamikaze) |  Patrol, Surveillance & Signal Intelligence (SS-PSS) |
|  Coast Guard Operations (SS-CG) | |



AEROMAC SEA-STRIKE (SS) UNMANNED SURFACE VEHICLES (USV)



Technical Specifications

Length Overall : 7,20 m

Beam : 2,00 m

Draught : 0,49 m

Speed : 40 kts +

Hull Material : HDPE

Propulsion : Jet Drive / Stern Drive

FPV Type Kamikaze Drone Integration



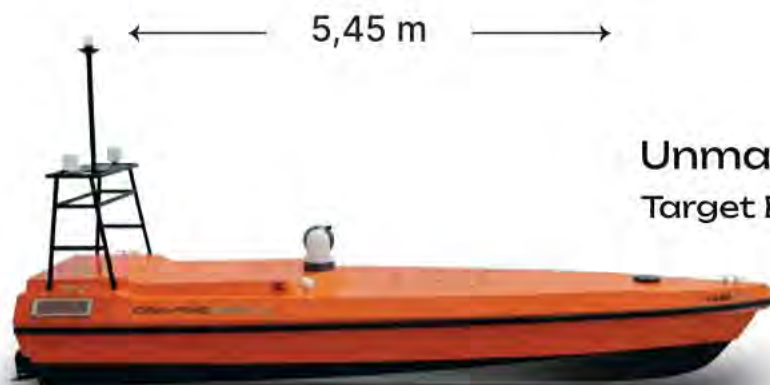
The 7.2-meter USV is suitable for patrol, surveillance and signal intelligence missions. It can reach speeds exceeding 40 kts and can fly kamikaze or FPV drones for surveillance purposes.



AEROMAC SEA-STRIKE (SS) UNMANNED SURFACE VEHICLES (USV)



Expendable
(SS-DART K-USV)
(Kamikaze)



Unmanned Surface
Target Boat (SS-TARGET)

Technical Specifications

Length Overall : 5,45 m

Beam : 1,60 m

Draught : 0,35 m

Speed : 60 kts +

Hull Material : HDPE

Propulsion : Jet Drive / Stern Drive

FPV Type Kamikaze Drone Integration

200 Kg Marine type (IP-67 protection)
special explosive with increased effect
for K-USV



A Kamikaze USV is an unmanned, remotely or autonomously controlled surface vehicle designed to damage or destroy enemy targets through direct impact, typically executing a single-use mission that results in its destruction upon target collision.

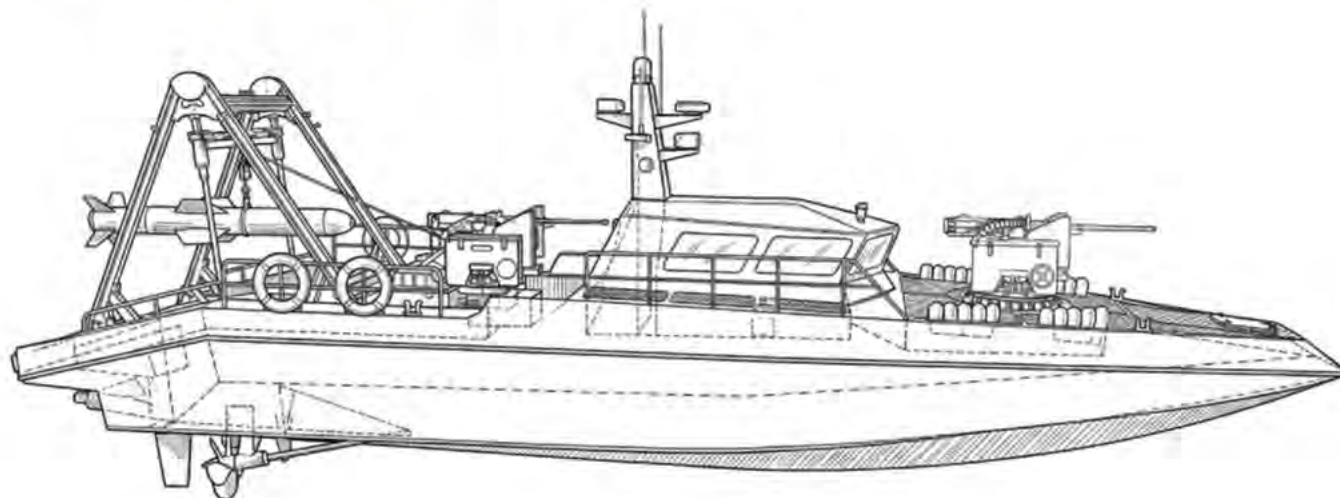


Kamikaze Unmanned Surface Vehicle (K-USV) Disabler System using the Skysting KS-2 Kamikaze drone (CONOPS-THORN/SKYSTING) (The drone in question is manufactured by our business partner Firestar)

USV PAYLOAD OPTIONS

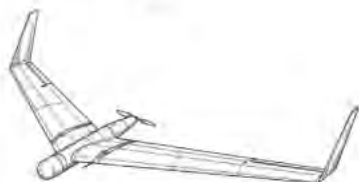
USV Version	Length Overall	Code	Naval Operations Task Type	Weapon / Engagement System Options	Main Sensor & Payload Options	USV Visual
Sea Strike - Anti Surface Warfare	14,6 m	SS-SURF	Armed Surface Engagement	-Mini Surface Guided Missile Launcher (Mini SSM) -12.7 mm Stabilized Turret	-EO/IR Pod -LPI Radar -AI Targeting System	
Sea Strike - Anti Submarine Warfare	14,6 m	SS-ASW	Shallow Water Submarine Search & Engagement	-Light Torpedo Launcher -ASW Rocket	-Towed Sonar -Dipping Sonar -AI Sonar Processing	
Sea Strike - Air Defence Warfare	14,6 m	SS-AIR	Mobile Air Defense Platform	-Mini Stinger-like SAM -RF Jammer	-EO/IR Tracking Pod	
Sea Strike - Amphibious Warfare	14,6 m	SS-AMPH	Reconnaissance, Supply and Spearhead Mission	-12.7 mm Stabilized Turret -Fog Generator	-EO/IR Surveillance -Cargo Compartment -Robotic Arm and Discard -Collection System	
Sea Strike - Mine Counter Measure Operations	14,6 m	SS-MCM	Sea Mine Detection and Autonomous Destruction	-Mini Underwater ROV -Magnetic Destruction Device	-Towed Sonar -AI Mine Classifier -Robotic Arm and Discard -Collection System	
Sea Strike - Electronic Warfare Operations	14,6 m	SS-EW	Spectrum Suppression & Spoofing	-RF jammer -Radar Deceiver (Radar Jamming and Deception)	-RF Analyzer -EW Database	
Sea Strike - Patrol, Surveillance & Signal Intelligence / Coast Guard Ops.	7,2 m	SS-PSS	Long-Term Intelligence & Surveillance	-7.62 mm Stabilized Turret -2-4 FPV Mini Drones (ISR / Light Attack)	-EO/IR Camera -COMINT/ELINT Systems -RF Recording -FPV Control Module	
Sea Strike - Expendable (SS-DART K-USV) (Kamikaze)	5,45 m	SS-OK K-IDA	Fast and AI-Powered Collision on Target	-200 kg Special Marine Type Explosive -1-2 FPV Attack or Surveillance Drones	-EO/IR Sight -INS + AI Targeting -FPV Control Module -Autonomous Guidance	
Sea Strike - Unmanned Surface Target Boat	5,45 m	SS-TARGET	Training, Testing and Radar Target	-RF Reflector -RCS Generator	-Telemetry System -RCS Simulation -Task Scenario Software	

FIREPOWER SYSTEM



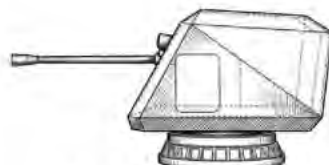
USV Payload Options

-  Modular Design
-  Plug & Play
-  Mission Configurable
-  Rapid Reconfiguration



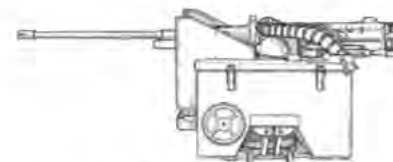
Loitering munition

Combines extended loiter time with precision strike, enabling flexible and low-risk engagement of time-sensitive targets.



30 mm Single Barrel Naval Gun

Provides high-rate, accurate fire against surface and coastal targets, enhancing deterrence and self-defense capabilities.



12.7 mm RWS

Provides stabilized, remotely operated firepower for effective close-range defense against asymmetric threats.



Light Torpedo

Enables effective detection and engagement of underwater threats in anti-submarine and littoral operations.



Lightweight Vertical/Oblique Anti-ship Missile

Delivers long-range, high-precision strikes against maritime targets from compact vertical or oblique launchers.

Modular "Plug and Play" Configuration of Firepower Strike System

The firepower strike system supports modular, plug-and-play payloads that can be configured for specific mission requirements. Compatible payloads include 12.7mm remote-controlled weapon stations, 30mm single-barrel naval guns, light vertical/oblique anti-ship missiles, patrol missiles, light torpedoes, light rockets, and other mission-specific modules.

AEROMAC SEA-STRIKE (SS) OTHER BOATS

RIB-U 4.20



← 4,20 m →

Technical Specifications

↔ **Length Overall** : 4,20 m

↔ **Beam** : 1,86 m

KG **Weight** : 150 kg **

⌀ **Tube Diameter** : 450 mm

👤 **Maximum Crew** : 6 per.

🔧 **Min/Max Power** : 30 HP / 50 HP

⚙️ **Shaft** : S/L

🏠 **Design Category** : C

RIB-U 6.00



← 6,00 m →

Technical Specifications

↔ **Length Overall** : 6,00 m

↔ **Beam** : 2,51 m

KG **Weight** : 750 kg **

⌀ **Tube Diameter** : 450 mm

👤 **Maximum Crew** : 10 per.

🔧 **Min/Max Power** : 115 HP / 150 HP

⚙️ **Shaft** : S/L

🏠 **Design Category** : C

Multipurpose Use
Rescue, Patrol & Boarding
GRP Hull Construction
Heavy-Endurance
Operations



AEROMAC SEA-STRIKE (SS) OTHER BOATS

RIB-U 7.30



← 7,30 m →

Technical Specifications

↔ **Length Overall** : 7,30 m

↔ **Beam** : 2,51 m

KG **Weight** : 1100 kg **

⦿ **Tube Diameter** : 500 mm

👤 **Maximum Crew** : 12 per.

🔧 **Min/Max Power** : 150 HP / 200 HP

⚙️ **Shaft** : S/L

🏠 **Design Category** : C

RIB-U 8.00



← 8,00 m →

Technical Specifications

↔ **Length Overall** : 8,00 m

↔ **Beam** : 2,76 m

KG **Weight** : 1350 kg **

⦿ **Tube Diameter** : 500 mm

👤 **Maximum Crew** : 14 per.

🔧 **Min/Max Power** : 200 HP / 350 HP

⚙️ **Shaft** : S/L

🏠 **Design Category** : B Offshore

Multipurpose Use
Rescue, Patrol & Boarding
GRP Hull Construction
Heavy-Endurance
Operations



AEROMAC SEA-STRIKE (SS) OTHER BOATS

RIB-U/m 9.75



← 9,75 m →

Technical Specifications

↔ **Length Overall** : 9,75 m

↔ **Beam** : 3,40 m

KG **Weight** : 1540 kg **

⊗ **Tube Diameter** : 600 mm

👤 **Maximum Crew** : 14 per.

🔧 **Min/Max Power** : 2×350 HP

⚙️ **Shaft** : S/L

🏠 **Design Category** : B Offshore

RIB-U/s 11.00



← 10,90 m →

Technical Specifications

↔ **Length Overall** : 10,90 m

↔ **Beam** : 2,90 m

KG **Weight** : 1800 kg **

⊗ **Tube Diameter** : 510 mm

👤 **Maximum Crew** : 4 per.

🔧 **Min/Max Power** : 2×450 HP

🌀 **Surface Drive** : 85 knots

🏠 **Design Category** : B Offshore

Multipurpose Use
Rescue, Patrol & Boarding
GRP Hull Construction
Heavy-Endurance
Operations



AEROMAC TACTICAL COMMAND VEHICLE (TCV-26)



Aeromac TCV-26 Tactical Command Vehicle is a fully integrated, mobile command and control platform designed to support field operations, crisis management, public safety, and tactical missions. The vehicle provides real-time situational awareness, secure communications, and mission coordination capabilities under all operational conditions.

Technical Specifications

-  **Vehicle Type :** Tactical Command Vehicle
-  **Chassis :** Mercedes-Benz Sprinter 417CDI
-  **Drive Configuration :** All-Wheel Drive (AWD) 4x4
-  **Engine Type :** Diesel
-  **Transmission :** Automatic
-  **Gross Vehicle Weight Rating (GVWR) :** 4100 kg
-  **Suspension :** Heavy-duty, mission-adapted suspension system
-  **Operational Endurance :** Continuous 24/7 operation



CONCEPT OF AUTONOMOUS SYSTEM INTEGRATION FOR COUNTERING DRIFT SEA MINES (CONOPS-SARPAN)

1 DETECTION AND TASK PLANNING PHASE

- ⚓ Drifting mines are detected on the sea surface.
- In order to destroy the drifting mine, a destruction drone with Remote Control Initiation System (RCIS)-USAS loading is lifted from the **Frigate/Corvette, Fast Attack Boat, MCM Ship or USV** in the region by the operator.

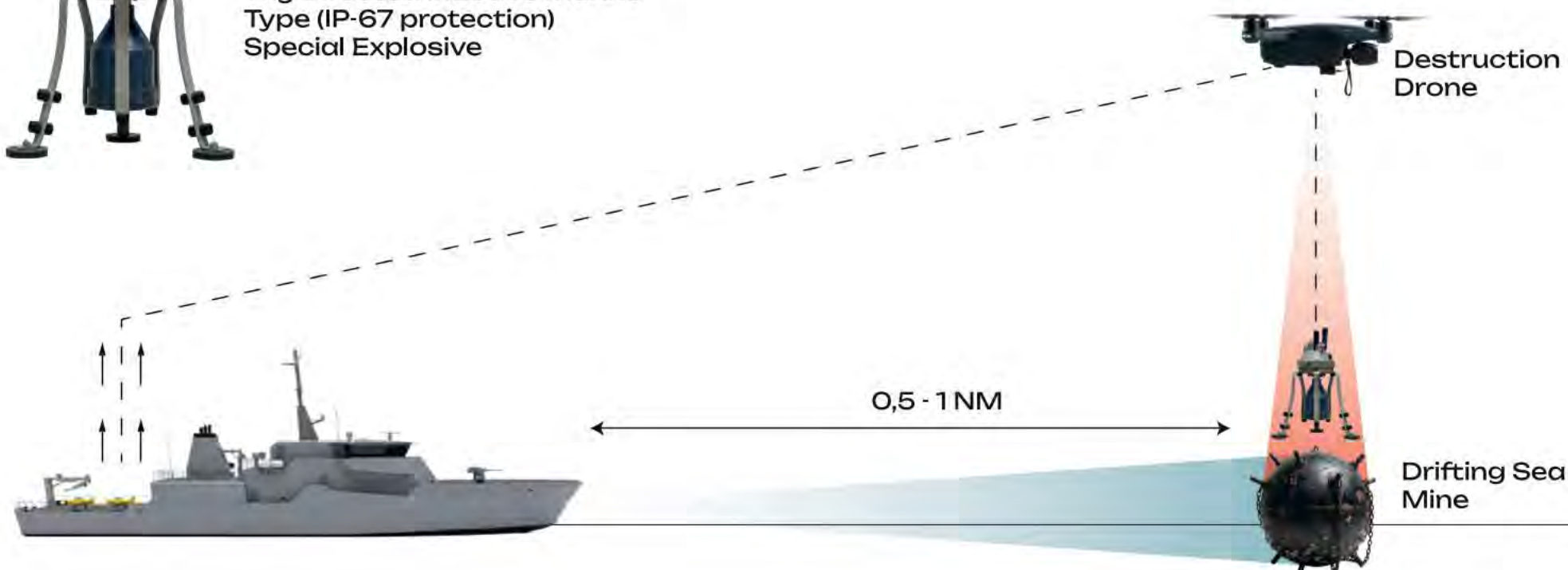


RCIS-USAS

1 kg Directed Inactive Marine
Type (IP-67 protection)
Special Explosive

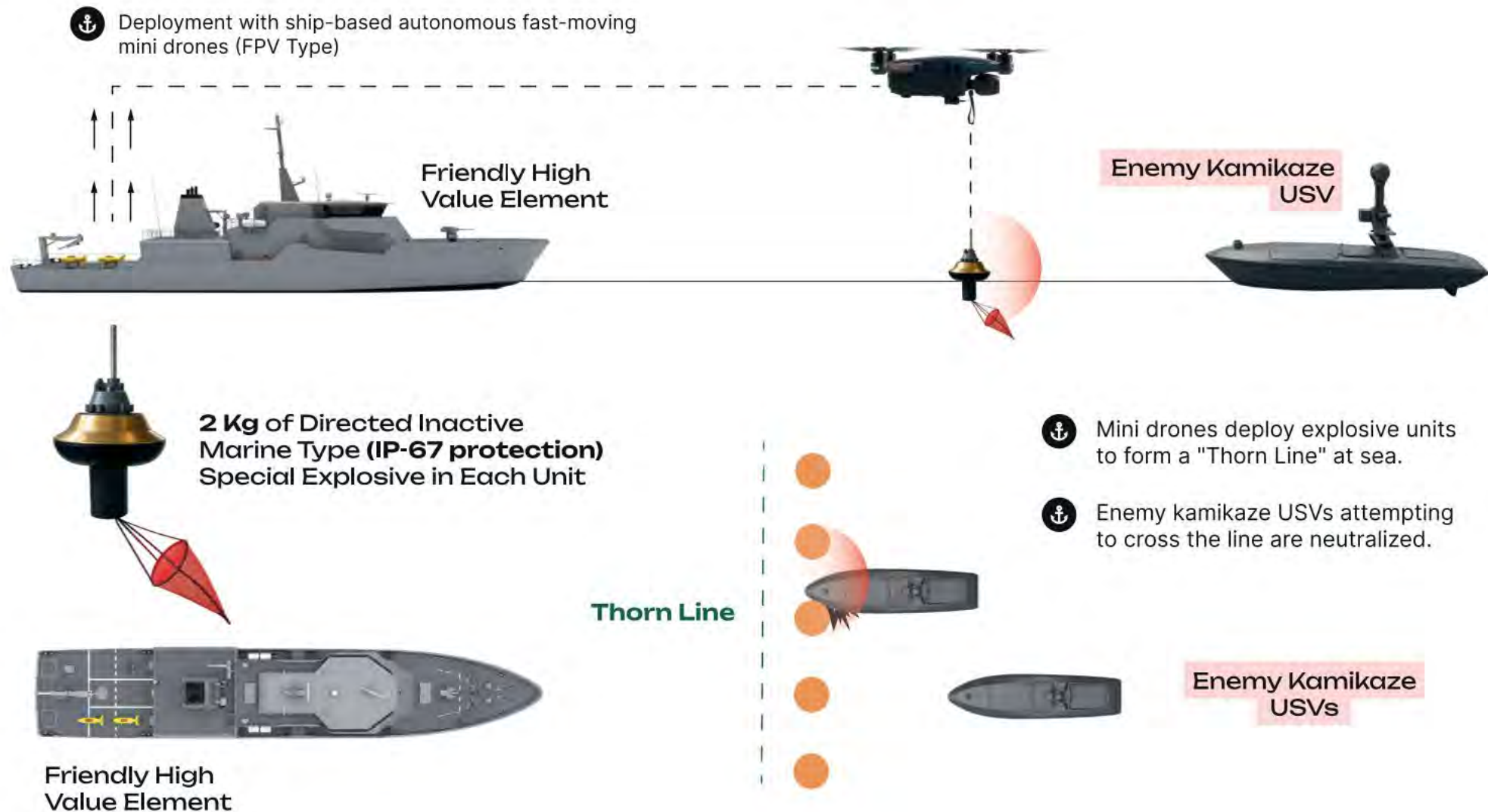
2 DESTRUCTION PHASE

- ⚓ The Remote Control Initiation System (RCIS)-USAS ammunition pod carried in the drone body is activated.
- With the **support of Artificial Intelligence (AI)**, the drone maneuvers right over the mine and lowers the Remote Control Initiation System (RCIS)-USAS pod [with a 1 kg directed inactive marine type (IP-67 protection) special explosive] onto the mine, and the pod feet stick to the mine.
- ⚓ The explosive pod is activated and destroyed by magnetic warning, time setting or remote operator command.



CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN)

DUTY CYCLE → DESTRUCTION BY LAYING A THORN LINE WITH FAST MINI DRONES



CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN)

DUTY CYCLE → DESTRUCTION BY LAYING A THORN LINE WITH FAST MINI DRONES



Remote Control Initiation System (RCIS)-USAS (Less Affected by Current with Parachute Type Sea Anchor)

1 PREPARATION, DETECTION AND CLASSIFICATION PHASE

- Remote Control Initiation System (RCIS)-USAS ammunition is loaded onto ship-based autonomous fast moving mini drones and the mission parameters of the system are defined.
- Enemy Kamikaze USV is detected and identified with the Ship Combat Management System and Sensors, and target information is received from the ship combat management system.

2 DEPLOYMENT AND DESTRUCTION PHASE

- 5-10 Remote Control Initiation System (RCIS)-USAS ammunition are dropped into the sea in the direction of the threat by **ship-based autonomous fast moving mini drones (FPV type drones)** capable of firing multiple shots, or **manually from the ship** when the drone cannot be lifted in meteorological conditions higher than Sea State-3.
- The ropes are opened on the water and cover a wide area passively. A THORN line is created.
- The Kamikaze USV is slowed or immobilized by a rope contacting or becoming tangled in its propeller. At the same time, the acoustic/magnetic/contact sensor is activated and the Remote Control Initiation System (RCIS)-USAS explodes and destroys the target.
- The operator can **remotely deactivate or activate/deactivate specific Remote Control Initiation System (RCIS)-USAS units** whenever he deems appropriate. In this way, the system remaining at sea is secured against friendly elements.

DEPLOYMENT AND DESTRUCTION PHASE

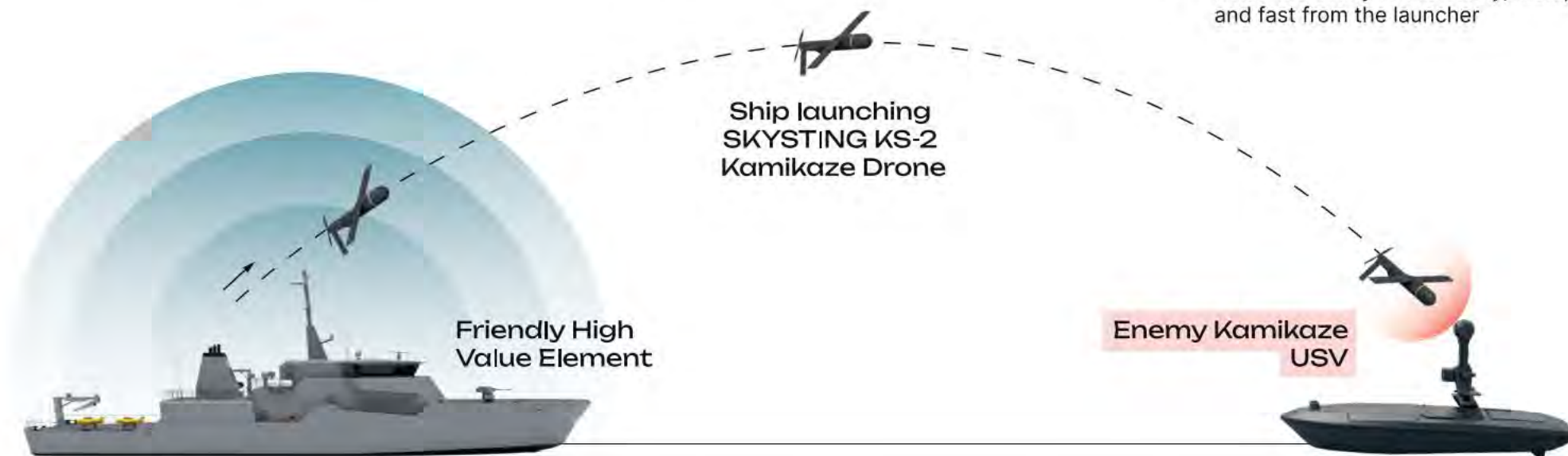
Total reaction time between detection and engagement: ~ **8-10 seconds**

Multi-sea deployment time: ~ **15-30 seconds**

CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN/SKYSTING)

DUTY CYCLE → **DESTROYED WITH SKYSTING KS-2 KAMIKAZE DRONE LAUNCHED FROM SHIP OR FRIENDLY USV**

- Integrated with Ship Combat Management System and Sensors
- When K-USV is detected/identified, it has the ability to fire safely, multiple and fast from the launcher



SKYSTING KS-2



Warhead : 500 gr - 2.500 gr

Link Distance : 8 nm

Maximum Range : 15 nm

Speed Limit : 80 kts

Flight Duration : 10 minutes

Launch Type : Canister Launcher

Fire Control and Monitoring :

Target Search and Destruction with AI Asisted Camera

Preparation Time for Shooting :

20 seconds

Drive Type : Electric Motor



CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN/SKYSTING)

DUTY CYCLE → DESTROYED WITH SKYSTING KS-2 KAMIKAZE DRONE LAUNCHED FROM SHIP OR FRIENDLY USV

1 PREPARATION, DETECTION AND CLASSIFICATION PHASE

- ⚓ The Skysting Ks-2 launcher on the ship is activated.
- ⚓ Enemy Kamikaze USV is detected and identified with the Ship Combat Management System and Sensors.
- ⚓ Automatic, semi-automatic or operator controlled engagement decision is made.

2 ENGAGEMENT & NEUTRALIZATION PHASE

- ⚓ Skysting Ks-2 kamikaze drones or drones are fired safely, multiple and quickly from the ship to the target direction. Skysting Ks-2 searches for targets with artificial intelligence support and when a target is detected, it locks onto the target and destroys it.
- ⚓ The Skysting Ks-2 kamikaze drones can also be fired from the Sea Strike-SURF USV.

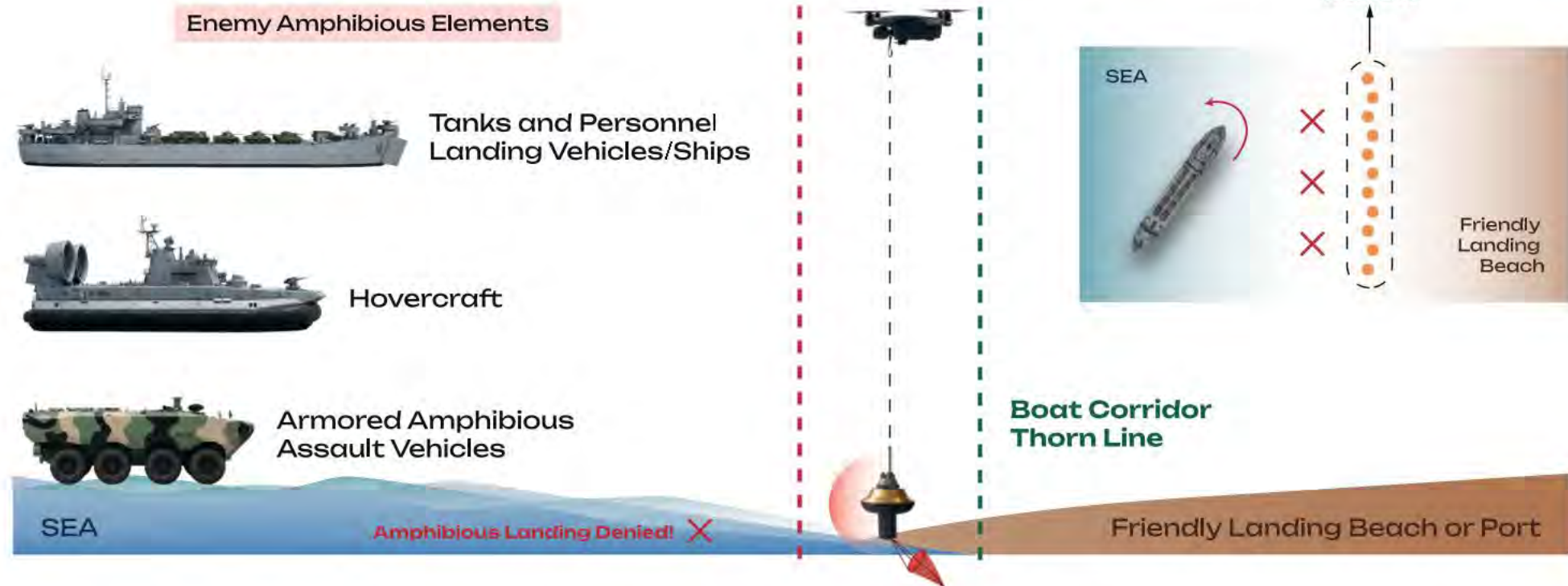
DUTY CYCLE SUMMARY

- ⚓ Total reaction time between detection and engagement: **~6-8 seconds**
- ⚓ Multiple firing time: **~10 seconds**



CONCEPT OF AMPHIBIOUS SEA VEHICLE BLOCKER SYSTEM (CONOPS-THORN/AMPHIBIOUS)

USE AGAINST ENEMY AMPHIBIOUS ELEMENTS ON THE FRIENDLY COAST



- ⚓ Laying a DIKEN line, which is less affected by the current, with a **parachute-type sea anchor** and a DIKEN line, which is located in the boat corridor to be used by the enemy where there is a friendly landing beach to be protected, or in the approaching waters of the boat corridor, with **autonomously controlled drones** at night and just before the enemy's amphibious operation (**It can also be used in port or strait entrances that are to be protected within the same concept**)
- ⚓ Explosion of enemy amphibious vessels with hull/propeller damage and target destruction when they come into contact with the Remote Control Initiation System (RCIS)-USAS (or ropes) by being entangled in the rope or triggered by sensors.
- ⚓ Remote activation and deactivation capability of the Thorn Line.
- ⚓ **Deterrent effect** from amphibious operations

AEROMAC SEA-STRIKE TARGET MARINE UNMANNED SURFACE TARGET BOAT

Technical Specifications

↔ **Length Overall** : 5 meters

📦 **Boat Hull** : Long-Lasting HDPE Boat Structure

📋 **Task** : Fast Target Boat in Firing Training for Asymmetric Threats (Terrorist Attack, Kamikaze Boat Attack etc.)

🚢 **Propulsion** : Water jet or outboard motor (high maneuverability)

🛡️ **Durability** : Resistant to multiple hits and shrapnel falling into water

🌀 **Visibility** : Reflectors to increase radar visibility

🕒 **Speed** : 22-50 kts

Marine Unmanned Surface Target Boat



📡 **Unmanned Operation** : Remote command (5-10 NM) or predefined mission profile

💰 **Cost** : Expendable or semi-expendable (cost-effective)



TOWED TARGET AT SEA WITH SEA STRIKE USV

Technical Specifications

↔ **Length Overall** : 10 meters

📦 **Target Hull** : Shipbuilding Steel

📋 **Task** : Towed Type Surface Target that Simulates a Large Surface Target

🚢 **Propulsion** : Towing by Sea Strike USV

🛡️ **Durability** : Resistant to multiple hits and shrapnel falling into water

🎯 **Visibility** : Reflectors to increase radar visibility

🕒 **Speed** : 5-10 kts



Weight : 4 Tons

Height : 6 m

Width : 5 m

📡 **Unmanned Operation** : Remote command (10-15 NM) or predefined mission profile

💰 **Cost** : Repairable Custom Towed Target (cost-effective)

Repairable Custom Towed Target



0,5-1 NM
Tied with Steel Rope

Sea Strike USV
in Safe Area



MARINE ISR SYSTEMS

TRVG-S

OPERATIONAL CAPABILITIES

Target Tracking	EO & IR
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Maritime Target Classification	Boat
	Unmanned Surface Vessel
	Ship / War Ship
	Floating Object (Human, Buoy, Sealight)
	Others
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles
	Others



Target Tracking



Inertial Measurement Unit



Integrated AI Processor



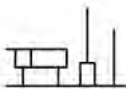
Object/Obstacle Detection



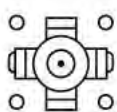
Object/Obstacle Classification



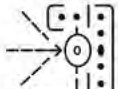
Object/Obstacle Distance Estimation



Compatibility to Autonomy



Simultaneous 360° Detection



Laser Range Finder

MARINE ISR SYSTEMS

AEROMAC

TRVG-S LD

OPERATIONAL CAPABILITIES

Target Tracking	EO & IR (MWIR & SWIR)
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Maritime Target Classification	Boat
	Unmanned Surface Vessel
	Ship / War Ship
	Floating Object (Human, Buoy, Sealight)
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles



Target Tracking



Inertial Measurement Unit



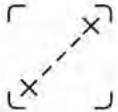
Integrated AI Processor



Object/Obstacle Detection



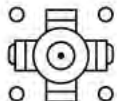
Object/Obstacle Classification



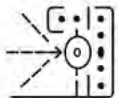
Object/Obstacle Distance Estimation



Laser Designator



Simultaneous 360° Detection



Laser Range Finder

MARINE ISR SYSTEMS

TRVG LD

LAND SURVEILLANCE SYSTEM OPERATIONAL CAPABILITIES

Target Tracking	EO & IR & SWIR
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles
Decision Support & Fire Control	Target Tracking Via Bounding Box Display
	Target Tracking by Keeping in Frame
	Target Position and Distance Feedback



Target Tracking



Inertial Measurement Unit



Integrated AI Processor



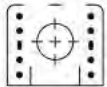
Object/Obstacle Detection



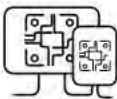
Object/Obstacle Classification



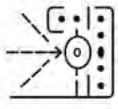
Object/Obstacle Distance Estimation



Laser Designator



User Interface Integration



Laser Range Finder

OUR PRODUCTION FACILITIES



ISTANBUL



YOZGAT



KOCAELI



IZMIR

OUR PRODUCTION ACTIVITIES

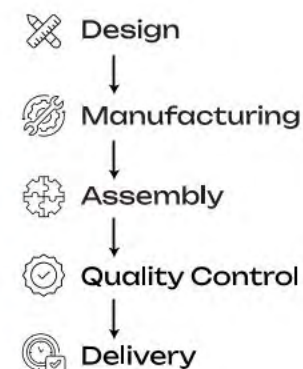
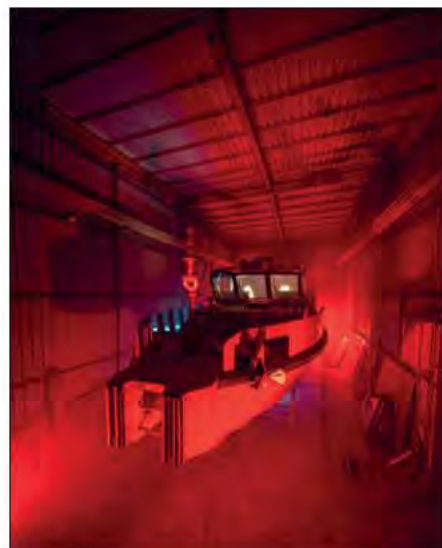
HDPE

(High-Density Polyethylene)
Hull Productions



🚢 The image showcases our production facilities, where both HDPE (High-Density Polyethylene) and aluminum boats are manufactured in accordance with rigorous quality standards and modern production processes.

Aluminum Hull Productions



🚢 Built on a modular and scalable manufacturing infrastructure, our production system enables the simultaneous fabrication of small, medium, and large USV hulls with uncompromised quality. This approach ensures rapid surge capacity during crisis or conflict situations while fully supporting high-rate serial production requirements.

AEROMAC



Contact Point

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aeromacelectronic.com

TRVG-S

MARINE ISR SYSTEM

OPERATIONAL CAPABILITIES

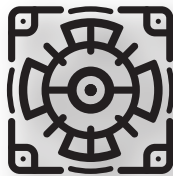
Target Tracking	EO & IR
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Maritime Target Classification	Boat
	Unmanned Surface Vessel
	Ship / War Ship
	Floating Object (Human, Buoy, Sealight)
	Others
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles
	Others



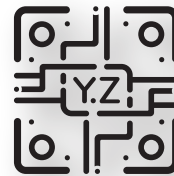
ADVANCED FEATURES



Target Tracking



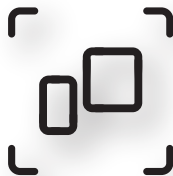
Inertial Measurement Unit



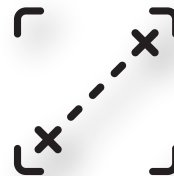
Integrated AI Processor



Object/Obstacle Detection



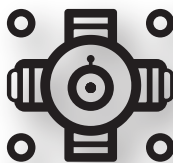
Object/Obstacle Classification



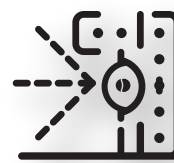
Object/Obstacle Distance Estimation



Compatibility to Autonomy



Simultaneous 360° Detection



Laser Range Finder

Electro-Optical Camera			Detection	Recognition	Identification				
Focus Length	6mm – 300mm	Human	5500m	3000m	2200m				
Zoom	50 X	NATO Target	25000m	9000m	5500m				
Wide FOV	60° x 46,6°								
Narrow FOV	1.79° x 1.35°								
Resolution	2048 x 1536								
Special Capabilities	Electronic Image Stabilization								
	Auto Focus								
	Fog Reduction								
	Heathaze Reduction								
Infrared Camera			Detection	Recognition	Identification				
Detector Type		Human	4200m	1400m	750m				
Focus Length	Cooled Mid-Wave Infrared (MWIR)	NATO Target	16000m	5500m	2600m				
Optical Zoom Level	20 X								
Wide FOV	35.5° x 28.7°								
Narrow FOV	1.83° x 1.47°								
Resolution	640 x 512								
Special Capabilities	Electronic Image Stabilization								
	Auto Focus								
	Black Hot/White Hot Selection								
Laser Range Finder (LRF)									
Measurement Range (Maximum)	15000m								
Measurement Range (NATO Target)	≥6500m								
Measurement Accuracy	≤1m								
System Specifications									
Dimensions	52 x 40 cm								
Weight	~32 kg								
Pan Axis Rotation Range	n x 360°								
Tilt Axis Rotation Range	-90° / +90°								
Pan Axis Speed	0.01°/sec --> 120°/sec								
Tilt Axis Speed	0.01°/sec --> 100°/sec								
Axis Accuracy	<0.1°								
Mechanical Stabilization	Available								
Moving Object Tracking	Available								
Distance and Position Estimation	Available								
AI Capabilities									
Change Detection	Available								
Moving Object Detection	Available								
Object Detection	Available								
Object Classification	5+ Class Including Ship, Boat, Person, Vehicle, Small Vessel and Buoy								
Object Tracking	32 Objects concurrently (can be increased)								
Intrusion Detection and Virtual Fence	Available								
Target Localization and Distance Estimation	Available								
Video Precessing									
Image Stabilization	Electronic								
Multi-profile Streaming	Available								
Customizable Codec Compression	Available								

TRVG-S LD



SYSTEM FEATURES & SPECIFICATIONS

OPERATIONAL CAPABILITIES

Target Tracking	EO & IR (MWIR & SWIR)
Target Detection and Classification	
Target Localization and Distance Estimation	
Object Types for Maritime Target Classification	Boat
	Unmanned Surface Vessel
	Ship / War Ship
	Floating Object (Human, Buoy, Sealignht)
Object Types for Land Target Classification	Vehicle
	Human
	Animal
	Herd
	Anti-Tank Weapon
	Military Vehicles



ADVANCED FEATURES



Laser Designator



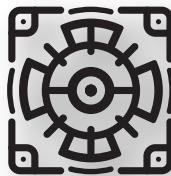
Laser Range Finder



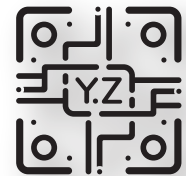
Simultaneous 360° Detection



Target Tracking



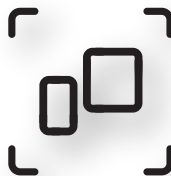
Inertial Measurement Unit



Integrated AI Processor



Object/Obstacle Detection



Object/Obstacle Classification



Object/Obstacle Distance Estimation

TRVG-S LD

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SYSTEM FEATURES & SPECIFICATIONS

Electro-Optical Camera			Detection	Recognition	Identification				
Focus Length	15mm – 775mm	Human	14000m	7500m	5500m				
Zoom	52 X	NATO Target	60000m	23000m	15000m				
Wide FOV	26.5° x 20°								
Narrow FOV	0.5° x 0.4°								
Resolution	2048 x 1536								
Special Capabilities	Electronic Image Stabilization								
	Optical Image Stabilization								
	Auto Focus								
	Fog Reduction								
	Heathaze Reduction								
Infrared Camera						Detection	Recognition	Identification	
Detector Type	Cooled Mid-Wave Infrared (MWIR)	Human	10000m	2500m	1500m				
Focus Length	35mm – 690mm	NATO Target	45000m	11000m	7500m				
Zoom	10 X+								
Wide FOV	20.7° x 11,8°								
Narrow FOV	1.06° x 0.6°								
Resolution	1280 x 720								
Special Capabilities	Electronic Image Stabilization								
	Auto Focus								
	Black Hot/White Hot Selection								
SWIR Camera						Detection	Recognition	Identification	
Detector Type	InGaAs					Human	3700m	1000m	600m
Resolution	640 x 512	NATO Target	16000m	4000m	2700m				
Focus Length	~20mm – 200mm								
Optical Zoom Level	10X								
Wide FOV	24° x 19°								
Narrow FOV	1.8° x 1.4°								
Laser Range Finder(LRF)									
Measurement Range(Maximum)	32000m								
Measurement Range(NATO Target)	8500m								
Measurement Accuracy	≤0.5m								
Laser Designator									
Visibility Range	≥ 8000m								
Designating Range	≥ 4000m								
System Specifications									
Dimensions	TBD								
Weight	TBD								
Pan Axis Rotation Range	n x 360°								
Tilt Axis Rotation Range	-90° / +90°								
Pan Axis Speed	0.1°/sec --> 100°/sn								
Tilt Axis Speed	0.1°/sec --> 90°/sn								
Axis Accuracy	<0.1°								
Mechanical Stabilization	Available								
Moving Object Tracking	Available								
Distance and Position Estimation	Available								
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