

OUR PRODUCTS

Surface Security System

We cover the range from 60m to 20km detection with different RADAR in ground security area.

Anti-Drone System

Passive Detection UAV System

Underwater Security System

AUV and Sonar



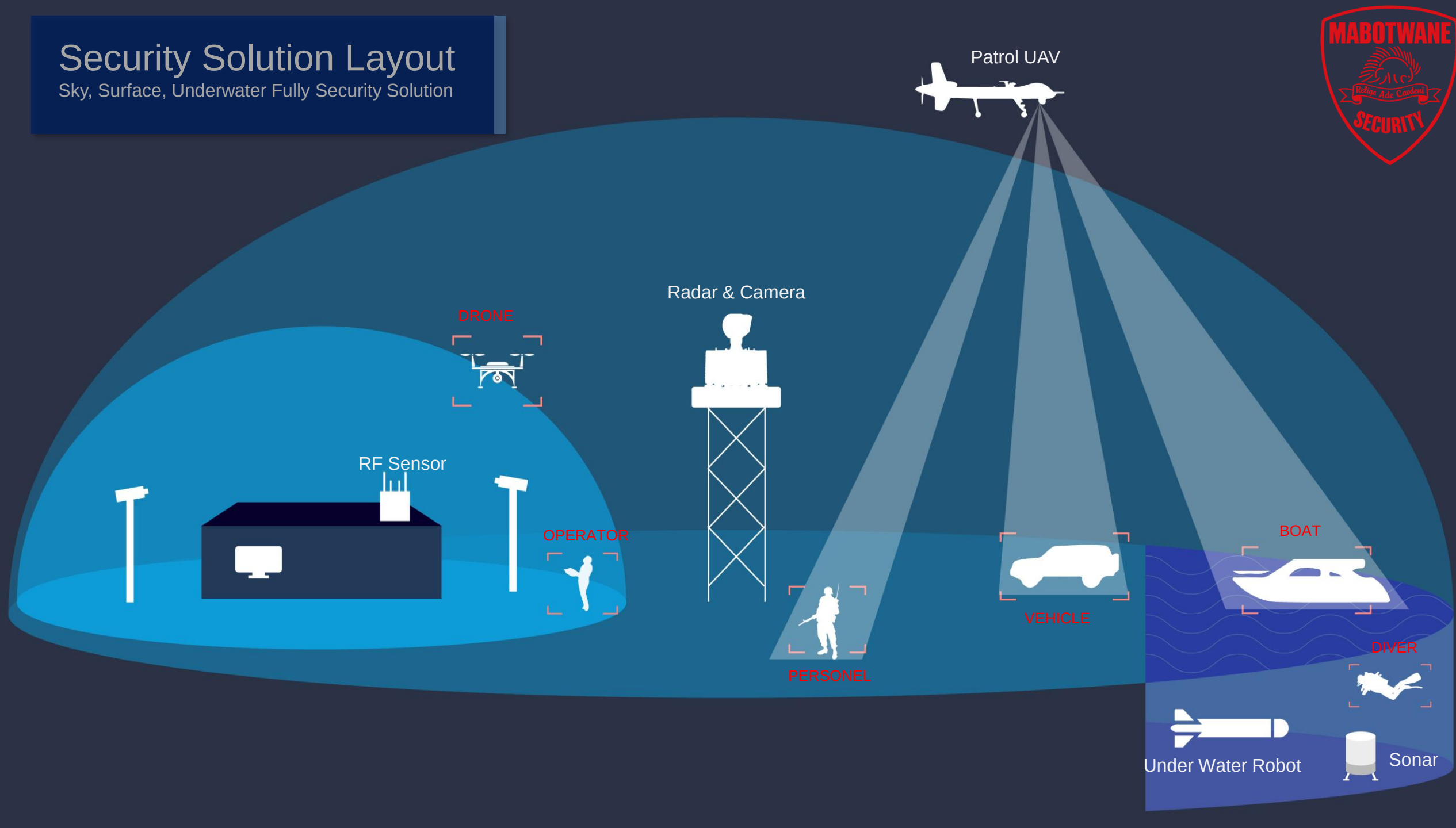


We Provide

Comprehensive border defense solutions in all environments

Security Solution Layout

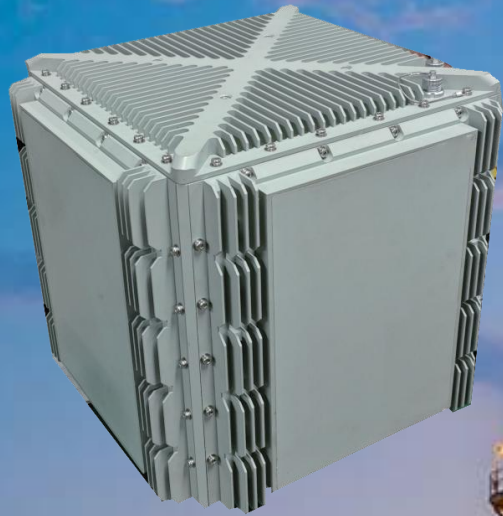
Sky, Surface, Underwater Fully Security Solution





Surface Security System

We cover the range from 60m to 20km detection with different RADAR in ground security area.



GS-13 m u t i - f u n c t i o n R a d a r

- AESA E-Scanning
- State of Art
- Software Defined
- High Reliability

 Person: 1.5km

 Vehicle: 3km

 Small Ship: 3km

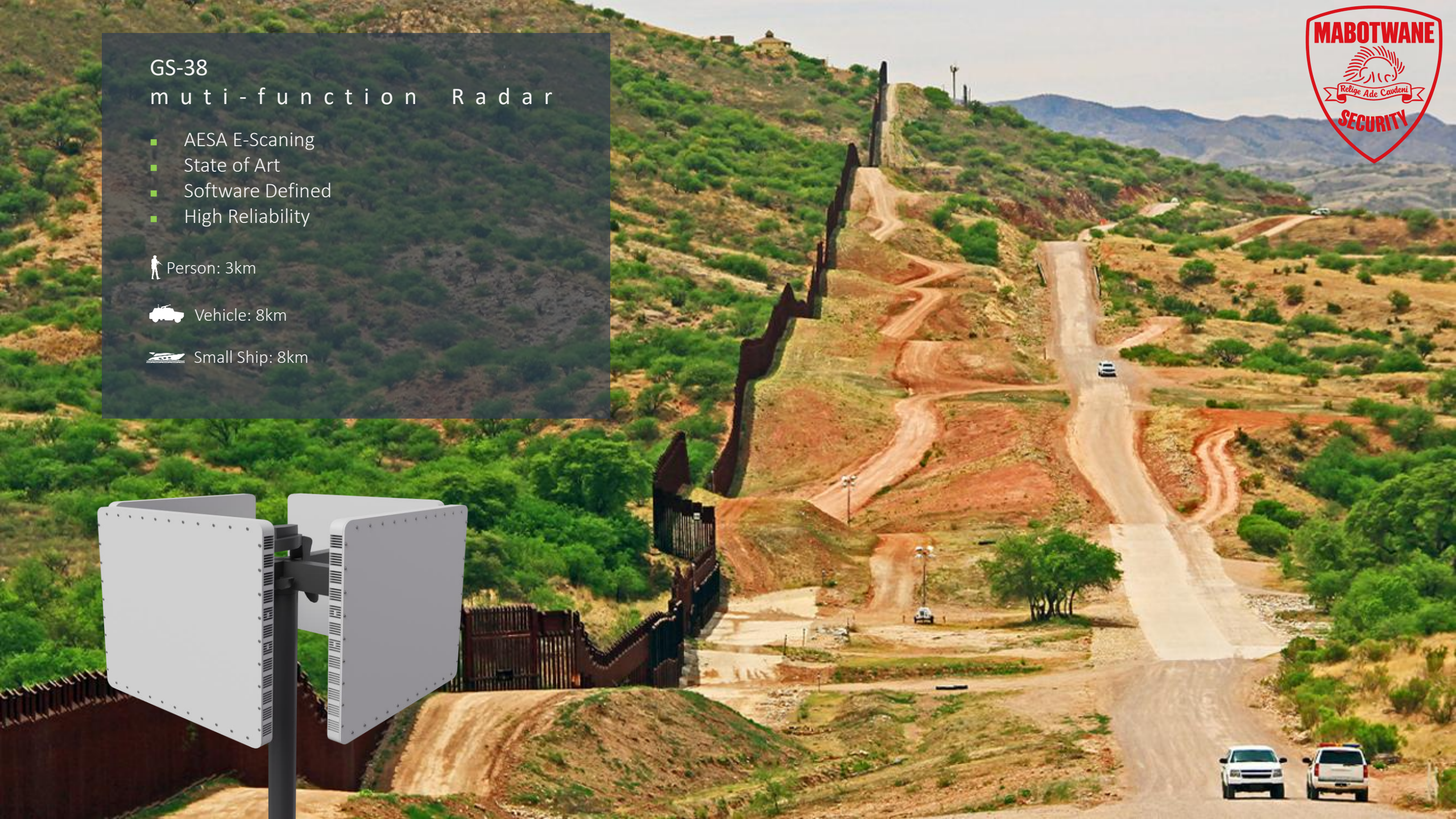
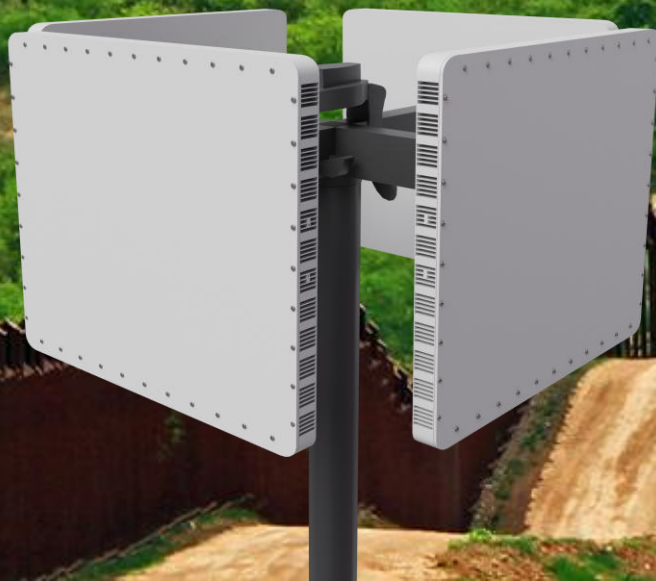
GS-38 m u t i - f u n c t i o n R a d a r

- AESA E-Scanning
- State of Art
- Software Defined
- High Reliability

 Person: 3km

 Vehicle: 8km

 Small Ship: 8km





AG-610 m u t i - f u n c t i o n R a d a r

- Mechanical Scanning
- High Data Rate
- High Precision
- Software Defined



Drone: 5km



Person: 6km



Vehicle: 10km



Small Ship: 10km



Orion GS-510

Medium Range Surveillance System

Radar

Recognition Range
(Target Classification)

Vehicle $\geq 10\text{Km}$
Personnel $\geq 5\text{Km}$
Large and Medium Ships $\geq 10\text{KM}$
Small Ship $\geq 8\text{Km}$
DJI Phantom 4 $\geq 2\text{Km}$

Visible Light

Recognition Range

Vehicle $\geq 10\text{Km}$
Personnel $\geq 5\text{Km}$
Large and Medium Ships $\geq 10\text{KM}$
Small Ship $\geq 8\text{Km}$
DJI Phantom 4 $\geq 2\text{Km}$

Thermal Camera

Recognition Range

Vehicle $\geq 3\text{Km}$
Personnel $\geq 1.3\text{Km}$
Large and Medium Ships $\geq 6\text{Km}$
Small Ship $\geq 5\text{Km}$
DJI Phantom 4 $\geq 1\text{Km}$

High Speed & Accuracy Camera

Rotating Speed: $70^\circ/\text{s}$
Rotation Accuracy: 0.03°

GS-510 m u t i - f u n c t i o n R a d a r

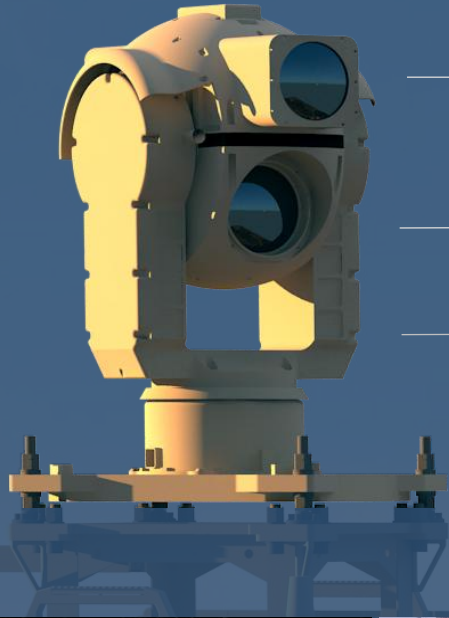
- AESA E-Scanning
- State of Art
- Software Defined
- High Reliability

 Person: 5km

 Vehicle: 10km

 Small Ship: 10km





Daylight

IR

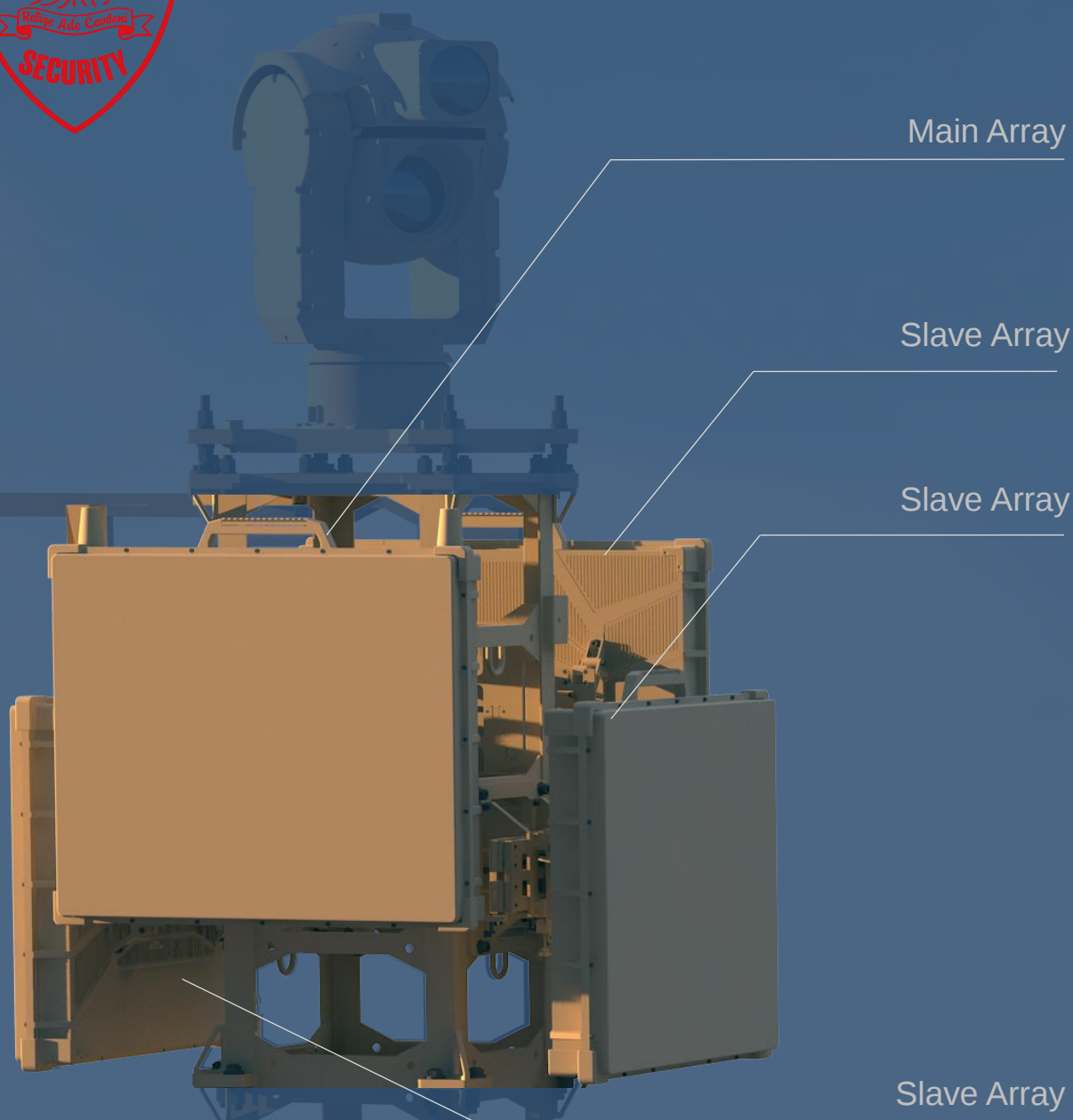
High Speed & Accuracy Camera

The maximum travel of the high-speed high-precision camera takes only 2.5 seconds, and no lens drift occurs.

AI Algorithm

Artificial intelligence algorithm software can analyze target characteristics





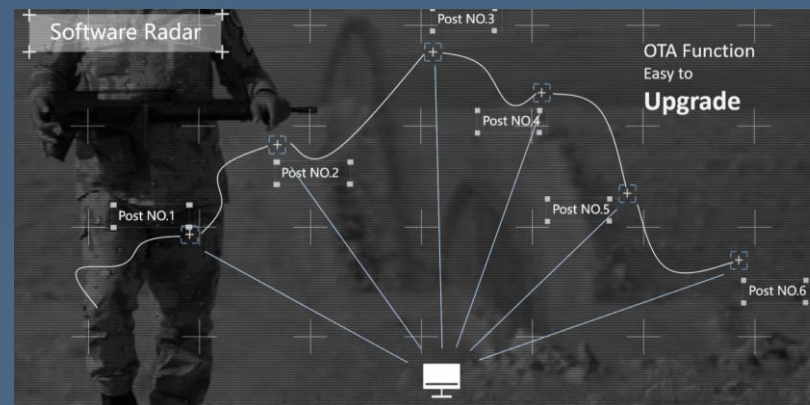
Advanced Surface Surveillance Radar

Active Electronic Scanning Array (AESA)

The radar uses an advanced four-sided electronically scanned array. This technology enables radar scanning speed (data rate) and accuracy to have very good performance

Software Defined Radar

Using the most advanced software-defined radar technology, the radar signal processing can be upgraded online



Target Classification





Orion GS-2042

Long Range Surveillance System

Radar

Recognition Range
(Target Classification)

- Vehicle ≥42Km
- Personnel ≥20Km
- Large and Medium Ships ≥42KM
- Small Ship ≥20Km(Pneumatic boat)
- DJI Phantom 4 ≥7Km

Visible Light

Recognition Range

- Vehicle ≥22Km
- Personnel ≥11Km
- Large and Medium Ships ≥26KM
- Small Ship ≥21Km
- DJI Phantom 4 ≥5Km

Thermal Camera

Recognition Range

- Vehicle ≥16Km
- Personnel ≥6Km
- Large and Medium Ships ≥25Km
- Small Ship ≥13Km
- DJI Phantom 4 ≥3.5Km

High Speed & Accuracy Camera

- Rotating Speed:120°/s
- Rotation Accuracy: 0.01°

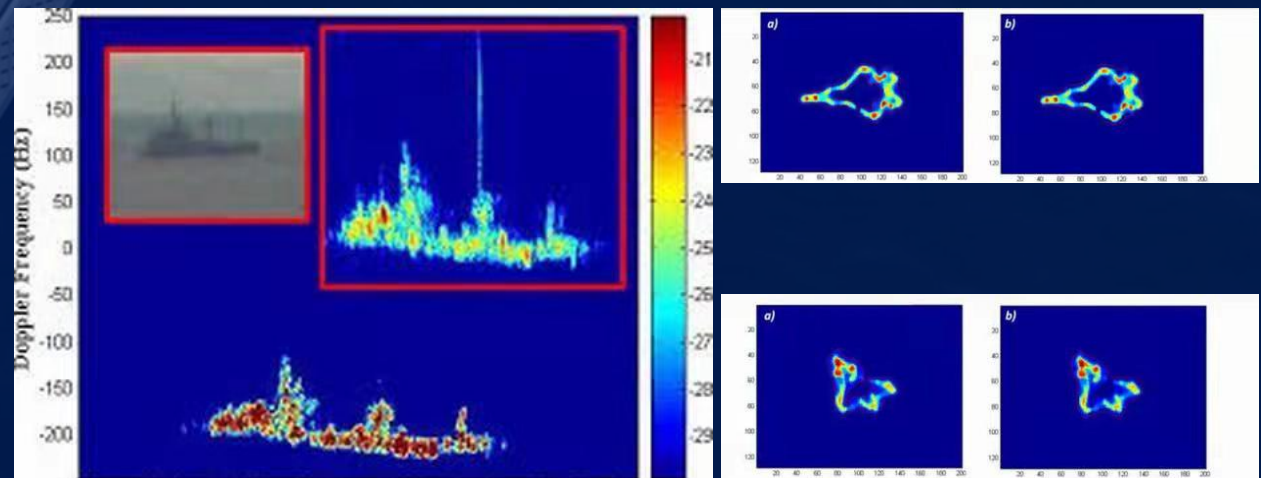
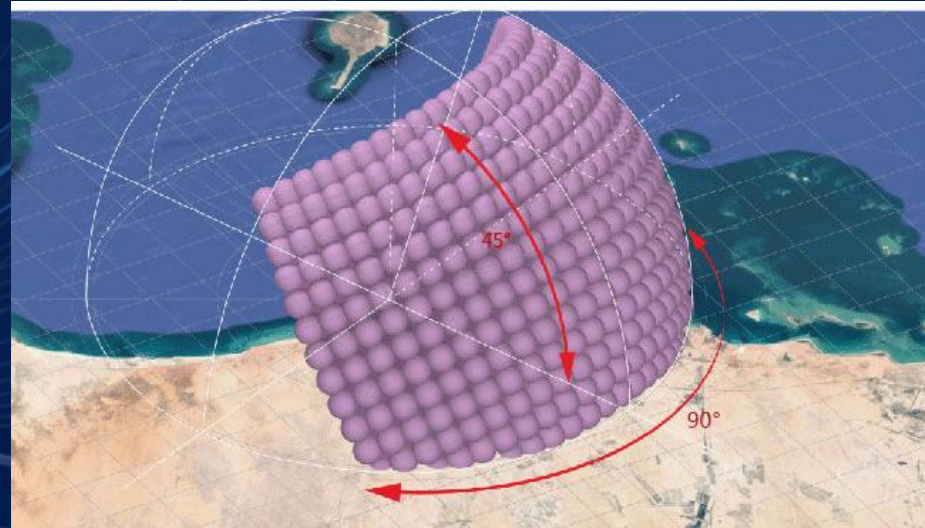
Orion GS-2042

Long Range Surveillance System

GS-2042 Adopt 32 X 32 (1024) TR module.
Can accurately detect moving objects in space(Air, Land,Seasurface) .

This type of radar such as GS2042 has the basis for upgrading to a wideband radar. Wideband radar can image targets at very long distances at all weather condition.

Since GS2042 is a software defined radar. The software algorithm for subsequent upgrades can be easily updated to each radar to complete the upgrade



SS-23

m u t i - f u n c t i o n R a d a r

- Mechanical Scanning
- High Data Rate
- High Precision
- Software Defined

 Small Ship: 10nm

Maximum range: 120km;
Minimum effective distance: less than or equal to 100m;
Antenna size: 18ft





Command & Control Software

Length: 62.838 km
Area: 314.222 km²
Radius: 10.001 km

Target Classification



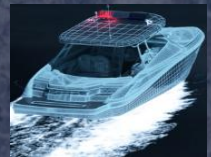
Camera & AI Confirm



Task Assign to Patrol Vehicle/boat



Optional Function



AIS Data Fusion



Optional Function

Drone Nest

Optional Function



Unknown Target

Target Acquired by Orion system



Equipment List

Warning Information Not Handled

Map Switch

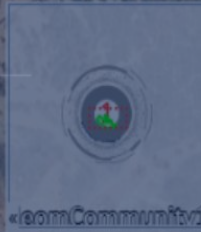
Layer Management

Map Measurement

Warning Area

Custom Identity

Set Up



TeamCommunity



Task Assignment

00:00:00.00

R 60 MIN



STATUS

- ▶ PATROL UNIT NO.: 17
- ▶ ASSIGNED TASKS
- PERSON ON DUTY: 4
- ▶ TARGET TYPE: VEHICLE

TARGET POINT

TARGET INFORMATION

TARGET NO: 142

TARGET VELOCITY: 16.9M/S

TARGET DIRECTION: 160.75°

TARGET DISTANCE: 26775

TARGET TYPE: VEHICLE

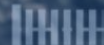
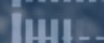


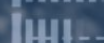
F 2.4 -3 dB



12 minute



CH1  

CH2  

Drone Nest



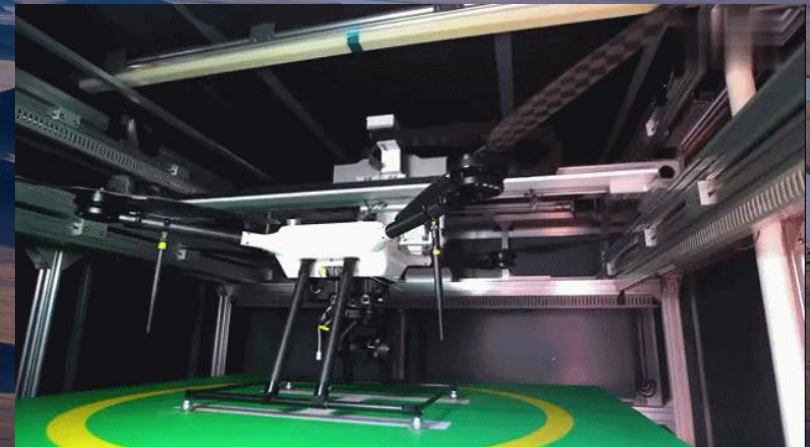
Payload: Daylight & IR Camera
Max. Speed: 15m/s
Control Radium: 10km
Endurance: 60min



Takeoff from A, Landing to B
or
Auto Return



Auto Launch & Landing



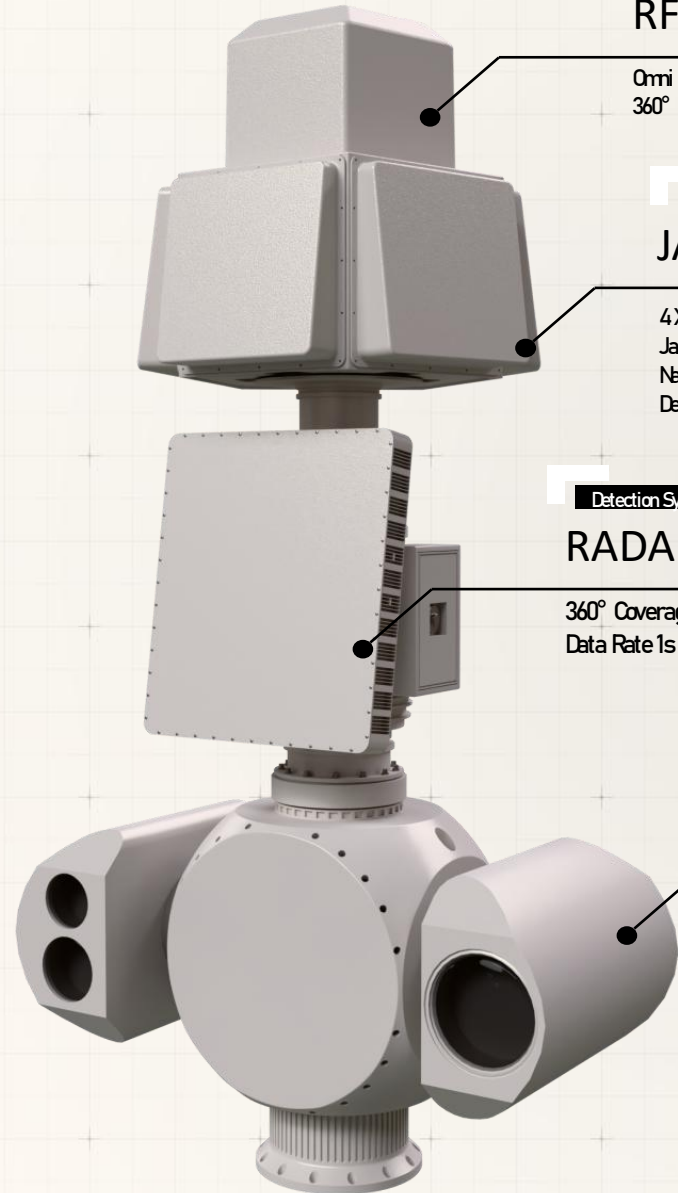
Auto Charge & Reload Battery



Anti-Drone System

Passive Detection UAV System

C-UAS SYSTEM



Detection System

RF DETECTOR

Omni - directional Spectrum Detection
360°

Disposal System

JAMMER, NAVIGATION INTERFERENCE, DECOY

4 X 90° = 360° Coverage
Jammer 5 km
Navigation Interference 3-5 km
Decoy 30 km

Detection System

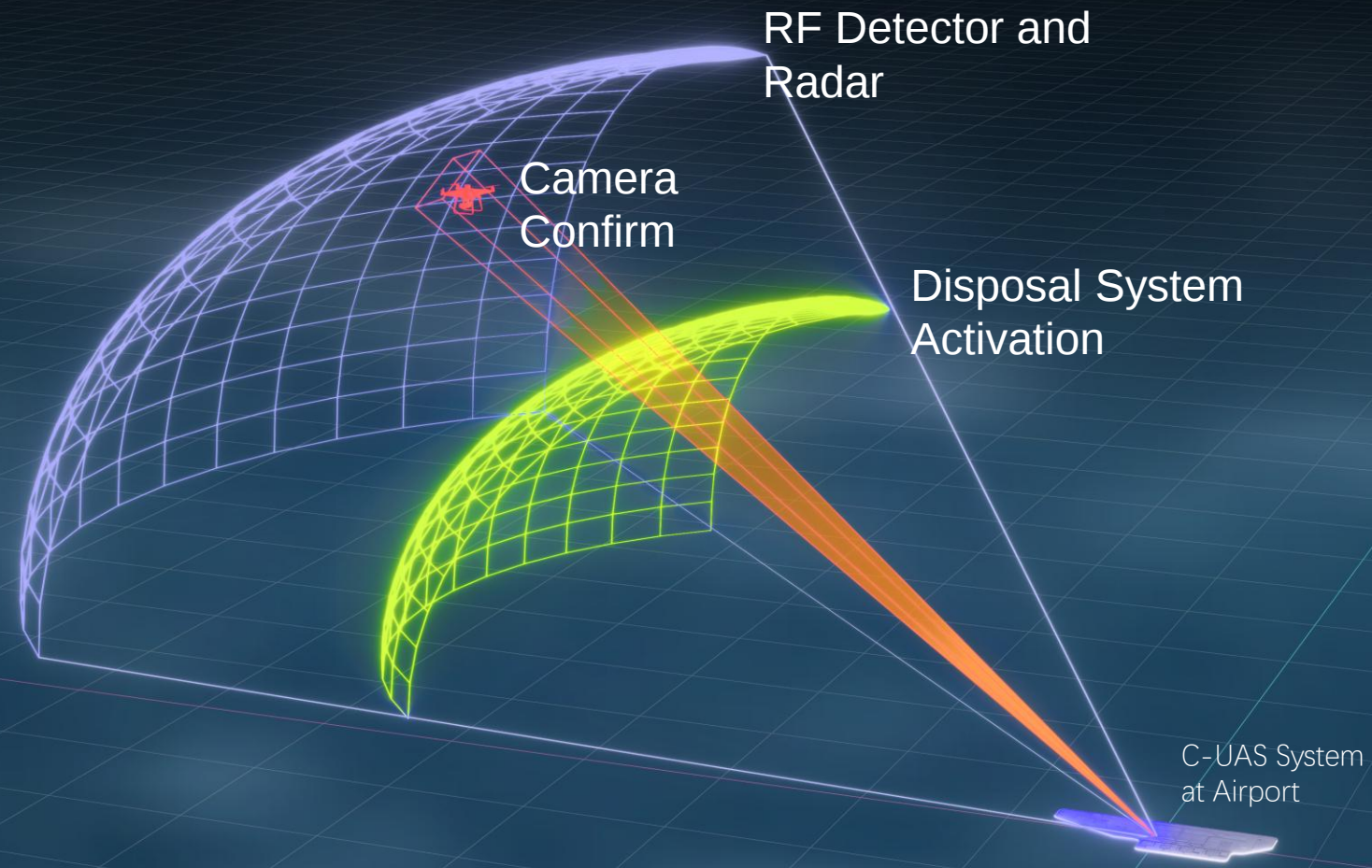
RADAR

360° Coverage
Data Rate 1s

Detection System

LONG RANGE CAMERA

visible Light Camera
Thermal Camera
Laser Ranger

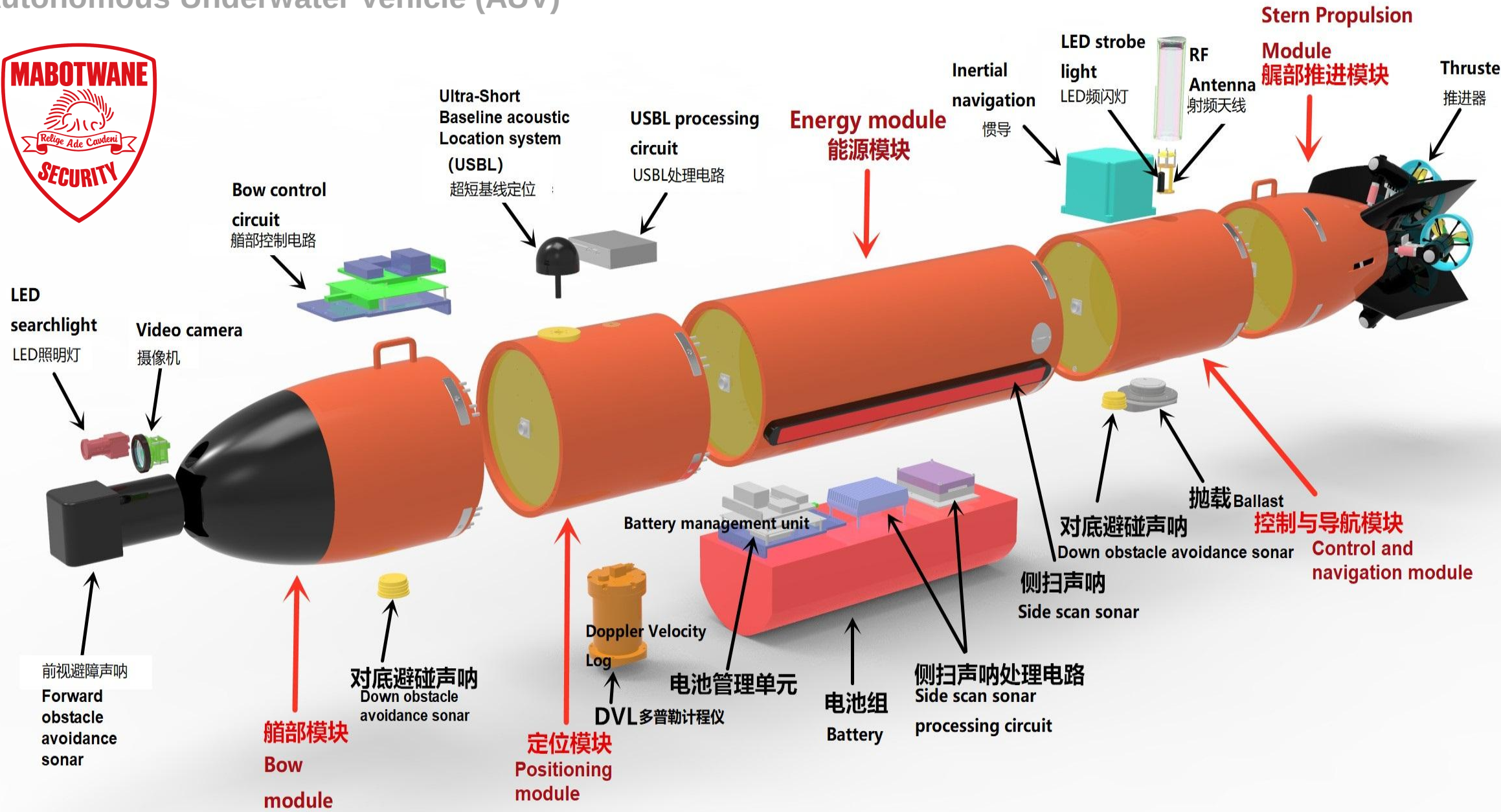




Underwater Security System

AUV and Sonar

Autonomous Underwater Vehicle (AUV)



System Application

DEFENSE



Mine
Countermeasure

Hydrography

Search

Intelligence,
Surveillance &
Reconnaissance (ISR)



MARINE RESEARCH

Marine Biology

Physical
Oceanography

Environmental
Monitoring

Marine/Geology
Investigation



COMMERCIAL

Environmental
Monitoring

Offshore
(Oil & Gas)

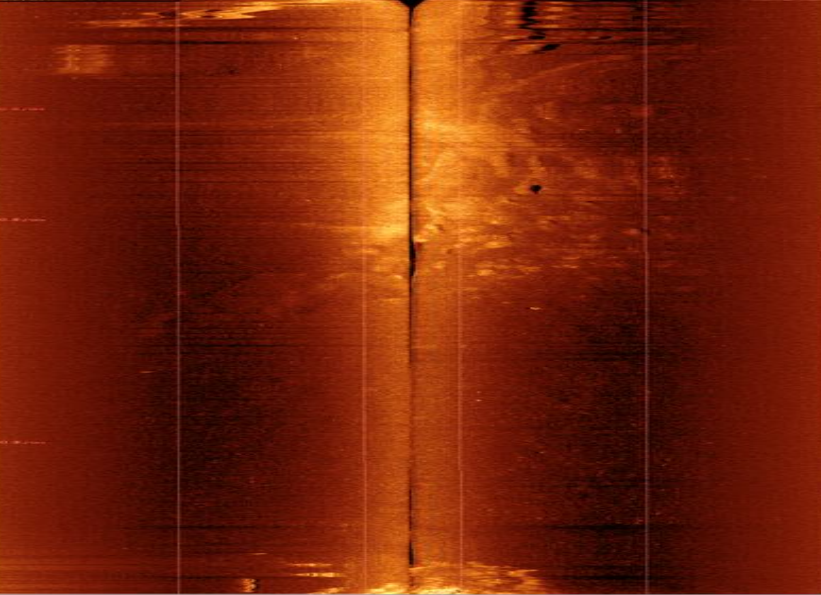
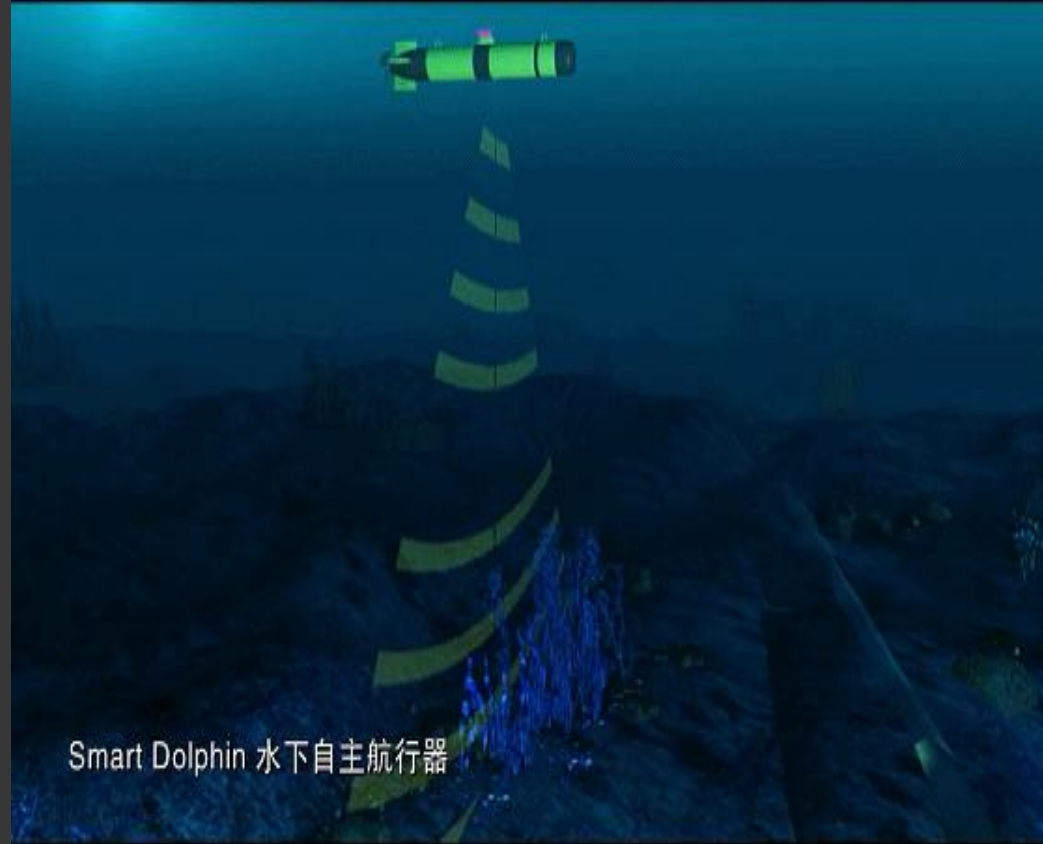
Hydrography

Search & Recovery



Hydrography

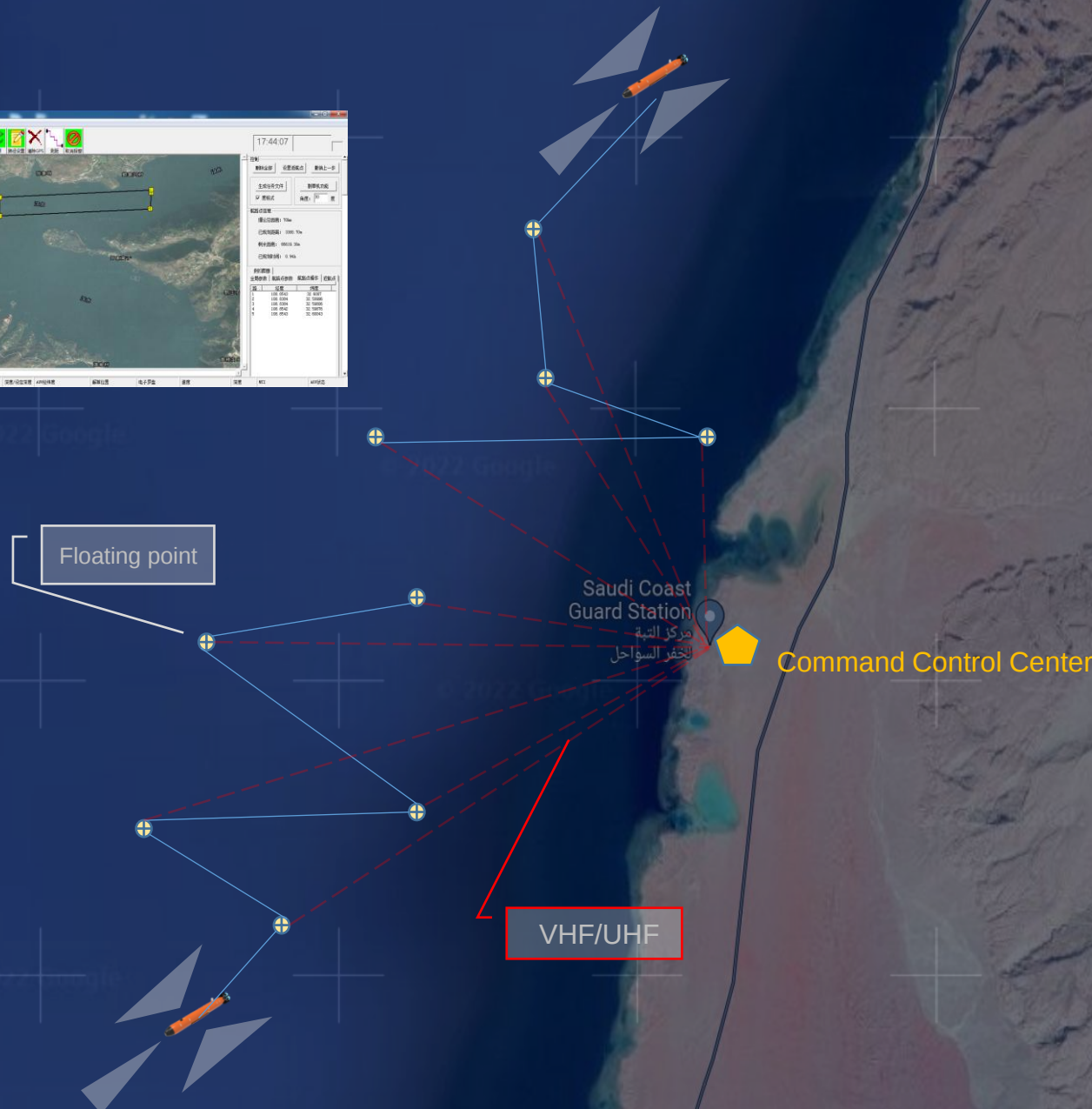
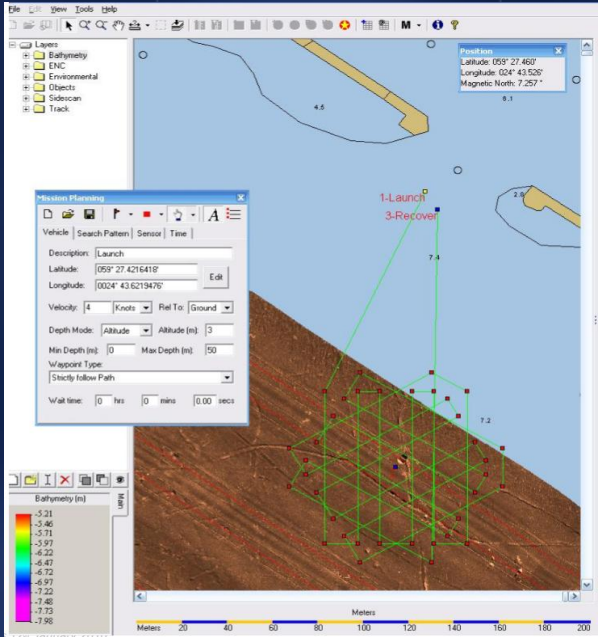
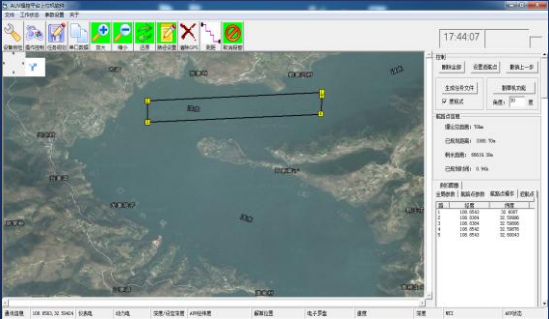
- collecting hydrographic information
- drawing seabed geographic map
- checking the submarine oil/gas pipes or cables



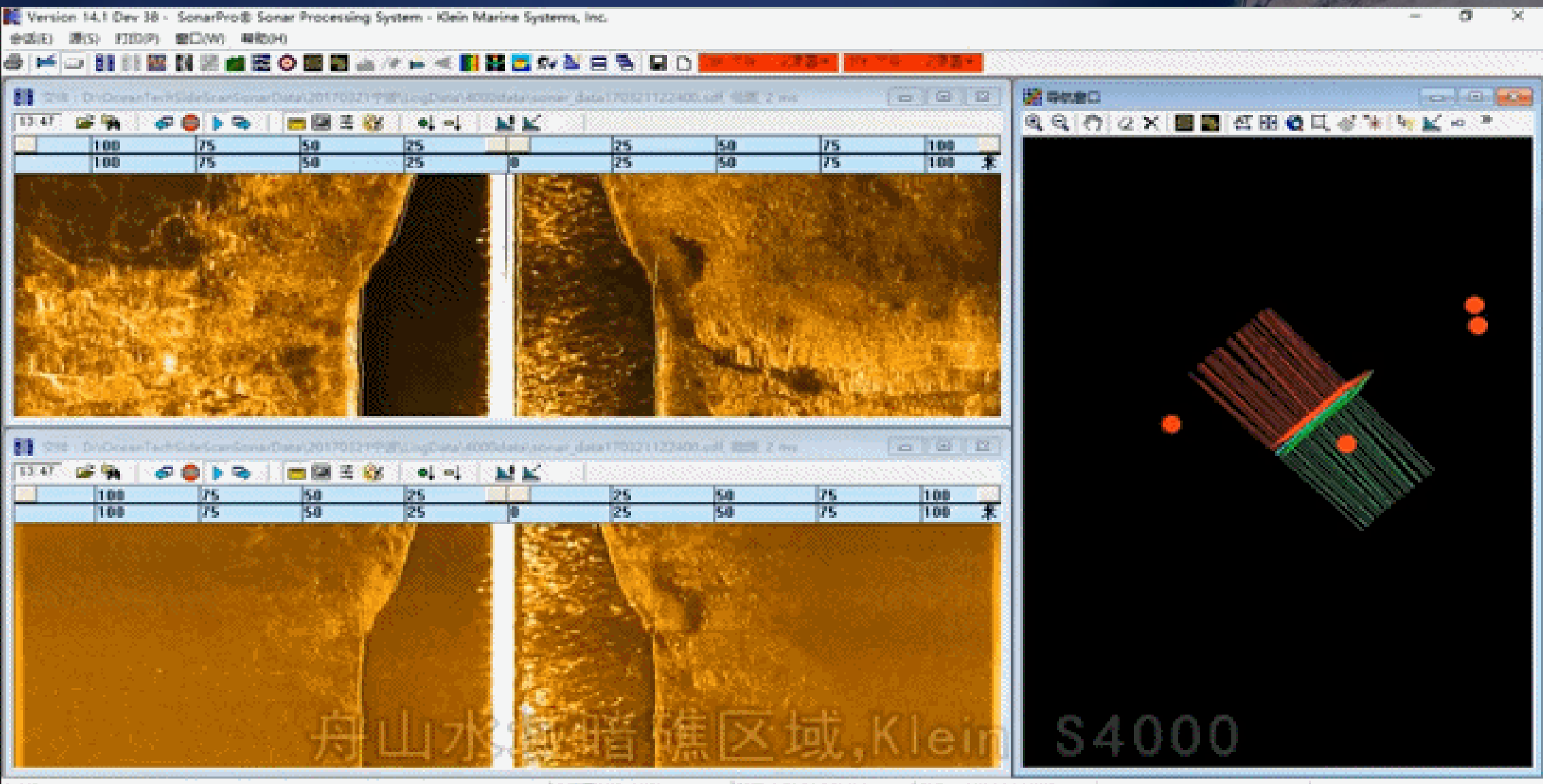
Rescue

- salvaging valuable underwater objects
- searching sunken ships

Deployment Solution

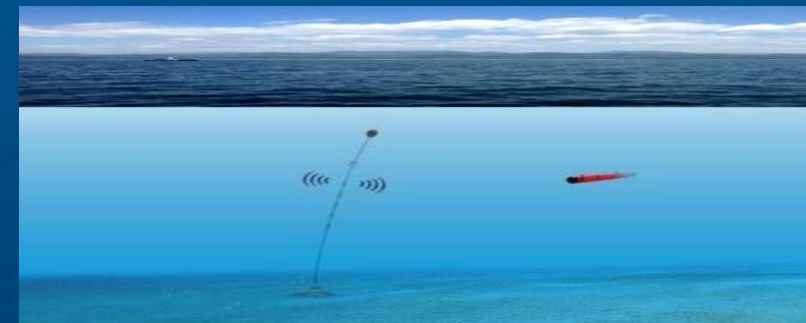


Deployment Solution

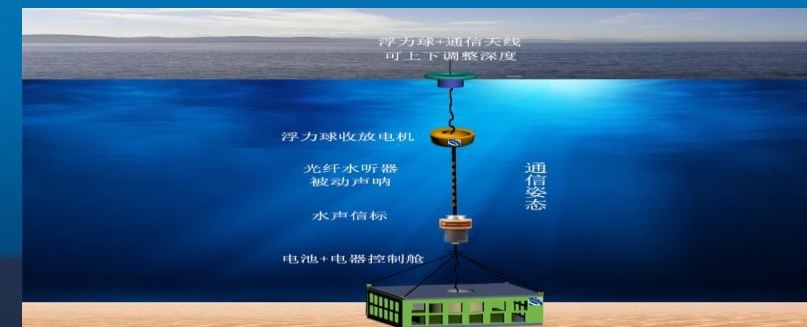


Buoy Detection System

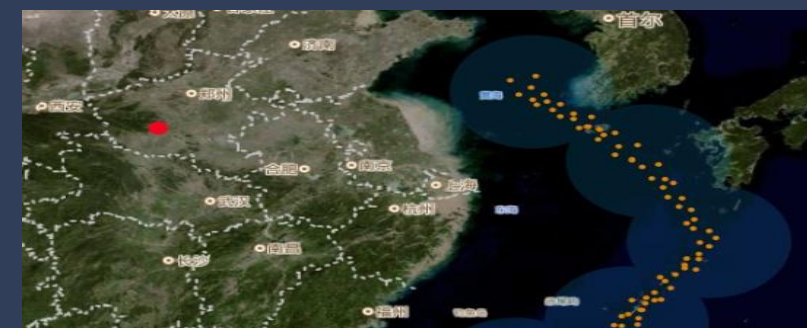
The buoy system is a modular underwater monitoring system for underwater target detection, communication and navigation. The system consists of a shore information center and amounts of subsurface buoy nodes, which can effectively and quickly meet the demand of target surveillance, information collection, early warning and etc.



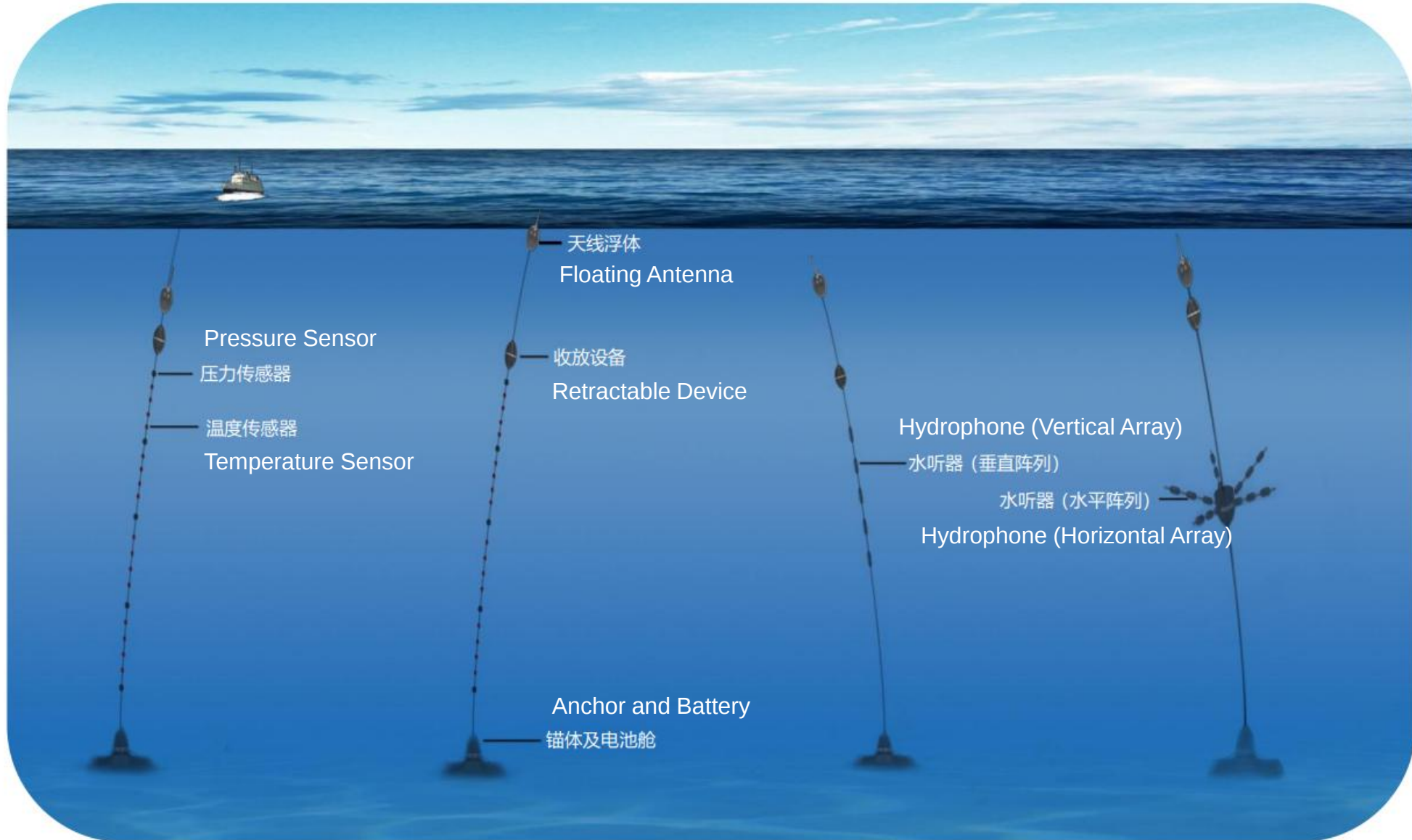
Underwater positioning

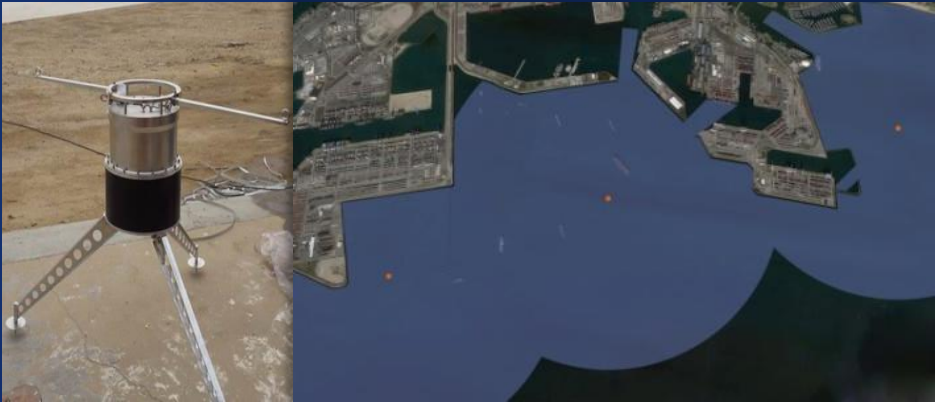


Wide area target monitoring

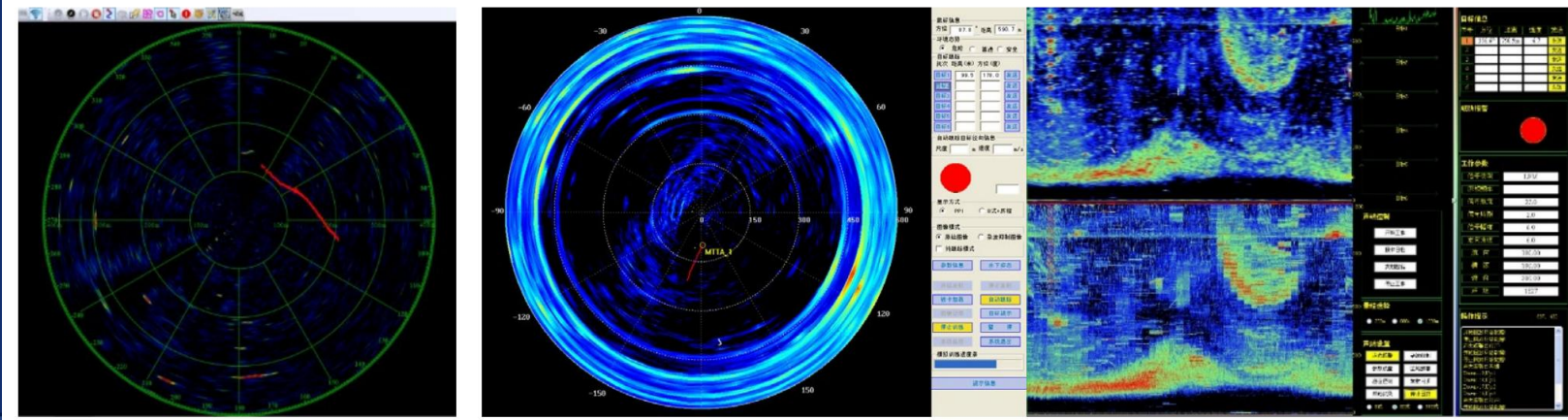
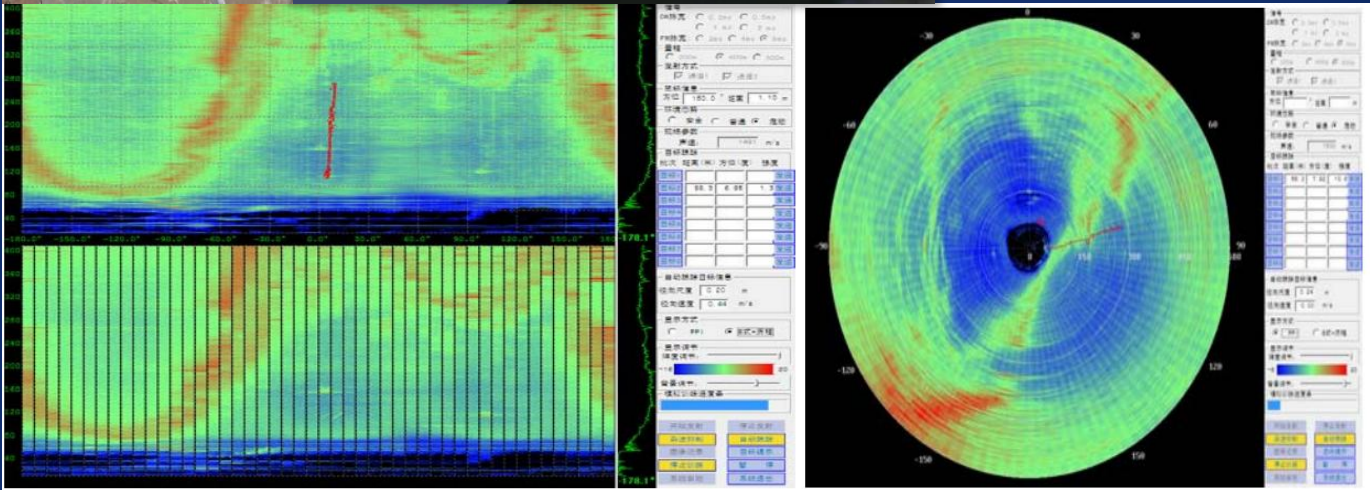


Network detecting
Shore-based Information Center





Anti-Diver Sonar





Coast Defense
Solution

25KM
3rd Defense Line

5KM
2nd Defense Line

2KM
1st Defense Line

0KM