



GROUND & AIR INTRUSION DEFENSE SECURITY SOLUTION  
**PERIMETER SECURITY&ANTI-UAV DEFENSE**  
SYSTEM PRODUCT SERIES

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# CATCH THE UNCATCHABLE

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100+  
National Patents



All product are self-developed  
proprietary intellectual  
property rights



High-tech Enterprise



Key Enterprise in National  
emergency rescue  
Industry

# ACCESS CONTROL & PERIMETER SECURITY SYSTEM

Access Control & Perimeter Security System is composed of Wireless Micro-Seisms Life Detection Vehicle Inspection System and Intelligent Perimeter Radar Video Security System. The system is based on edge computing and artificial intelligence technology and is guided by the "Internet of Everything" design concept, which intelligently integrate radar technology, photoelectric technology and micro-seismic technology to provides 360° protection for critical sites both on entrance access and perimeter.

## CHAPTER 01



Wireless Micro-Seisms Life Detection  
Vehicle Inspection System DN-VM



Intelligent Multi Sensor Fusion  
Perimeter Security System SP150VF



Intelligent Radar Video Wide Area  
Surveillance System SP150WVF/SP450WVF



Intelligent Radar Video Wide Area  
Panoramic Surveillance System SP500RVF



Ground Surveillance Radar SP1000W



## PRODUCT FEATURES

- » **Diversity vehicle model:** Designed for passenger vehicle, cabinet type truck, van truck inspection while no need to open the door or discharge the goods
- » **Convenient and fast detection:** Wireless RF connection, save your trouble for the cabling, direct attach to the vehicle bottom, easy and quick installation
- » **Flexible extension:** It is extendable for radar, vehicle bottom scan, vehicle license plate recognition, identity recognition, scenarios awareness technology and external connection with display screen
- » **Easy to operate:** Clear and succinct human-computer interaction interface, simple & easy-to-learn and humanized equipment operation procedure
- » **High reliability:** Siemens, Delixi, WAGO, TI, AD, ST, ADVANTECH, international brandelectronic device
- » **High efficiency detection:** Able to add more sensors for multiple vehicle simultaneous detection, improving detection efficiency
- » **Multiple alarms:** Software interface, indicating light, voice alarm for the detection result, voice reminding for sensor retrieve
- » **Excellent maintainability:** Control and charging unit is in modular design for quick knockdown and maintenance, direct replacement of the fault sensor
- » **Strong adaptability:** Built-in cool and heat dual mode AC to control internal working temperature for the system stability and reliability
- » **Safe transmission:** High-reliable industrial grade wireless RF equipment and specialized data encryption technique to ensure the transmission safety
- » **Self-checking function:** Real-time checking the sensors connection status and working conditions, automatically alarm when the fault unit detected
- » **Power early warning:** Real time display sensors power percentage, automatically remind for charging
- » **Automatically charging:** Build-in recharging drawers, sensors battery can be connected for recharging when put in it, automatically display the charging condition
- » **Automatically storage:** Detection result will be automatically saved for checking detection time and detection result any time when necessary
- » **Attractive and durable:** Integration welding fabrication equipment cabinet,SPCC cold rolling carbon steel plate, black dull polish stoving varnish technology

## SPECIFICATIONS

Transmission Range	≥100m
Detection Sensitivity	3.5V/g
Detection Resolution	2X10 <sup>-7</sup> g
Detection Time	10s~60s
Detection Range	20m <sup>2</sup> /sensor
Charging Module	Intagrated design, contact/inductive charging
Display	19inch(5:4), light 350cd/m, Max resolution:1280x1024
Frequency Range	Effective continuous vibration frequency from 0.5Hz to 20Hz
Detection Target	Support detection for various vehicle models under various environments by different detection modes



## Wireless Micro-Seisms Life Detection Vehicle Inspection System DN-VM

### PRODUCT OVERVIEW

Wireless microseisms life detection vehicle inspection system, presented by I'M AERO as the first leading manufacturer in this industry, it is the successive independent research and development system after the wired microseisms life detection vehicle inspection system. It consists of wireless microseisms sensor, wireless link transmitting system, control and management platform, control system, sound-light alarm, wireless microseisms sensor charger, temperature control module etc. Because of the human heart beating forces the blood to flow to the head and feet, forming into impact, the impact affects a certain amount of force on the body and transmitted to the vehicle to be tested. The microseismic sensor is attached to the bottom of the detection vehicle, which can sense the tiny movement or vibration caused by people hiding in the vehicle passing through the cargo to the vehicle frame. After collecting, converting, noise reduction, error correction and analytical processing of tiny movements or flutter concentrated in the frequency range of heart beating, the life in the vehicle is detected and the hidden target is found and located through specific procedures and algorithms.





## PRODUCT FEATURES

### Active 3D Protection

Radar video integration, active and three-dimensional security system without blind zone

### Edge AI

Integrated with Edge AI deep learning algorithm, realized front end information processing

### Multi-target Intelligent Recognition

Multi-target intelligent identification, filtering out false alarm like animal, trees, rain etc

### Multi Zone Alarms

According to the real scenario, defense zone is adjustable in the detection range

### Easy Deployment

Multiple unit deployed in series connection, realized seamless protection in perimeter security

### Strong Environment Adaptability

All-weather, 24/7, adapt to different environment

## Intelligent Multi Sensor Fusion Perimeter Security System SP150VF

### PRODUCT OVERVIEW

Intelligent multi sensor fusion perimeter security system SP150VF, mainly consists of intelligent MMW detecting radar, long range IR camera and 3D vision blind area coverage module in an integrated structure. This system is working based on the MMW detecting radar's continuously scanning of the protection area, integrating with edge AI deep learning algorithm, realized real time alarm and video tracking of the moving intrusion target in the protection area. It is able to intelligently recognize different intrusion target like human and vehicle, filtering out false alarm like animal, trees, rain etc, and supporting unattended operation of perimeter control. It is widely used in high-end perimeter security area such as military, prison, power grid, railway, airport and so on.



### SPECIFICATIONS

Effective Range	≤150m, (radar detection and video tracking)
Monitoring Area	Horizontal angle: 15°, Pitching angle: 10°, Adjustable defense zone
Video Identification	Moving target like human/vehicle/animal, False alarm like trees, rain.
Ranging Accuracy	≤0.5m
Velocity Measurement	≤120km/h
Infrared Supplementary Light	≤150m
Max Resolution	1080p/25fps
Video Character	Digital denoise, strong light inhibition, anti-shake video
Video Compression Standard	H.264/H.265
Network Interface	RJ45 100M/1000M self-adaption Ethernet port
Networking Protocol	ONVIF,GB28181,TCP/IP,HTTP,RTSP/RTP/RTCP
Communication Interface	RS232 interface
Power Interface	100~240V AC
Working Temperature	-40~75°C
Protection Class	IP67
Power Consumption	≤45W @220V AC
Weight	≤15KG

# Intelligent Radar Video Wide Area Surveillance System SP150WVF/SP450WVF

## PRODUCT OVERVIEW

SP150WVF, SP450WVF Intelligent Radar Video Wide Area Surveillance System is for wide area protection at high-end critical sites. The system is designed to send out alerts on target with position and track, record the real-time alarm video and prevent intrusion before the perimeter.

I'M AERO Intelligent Radar Video Perimeter Security System is made up of 24GHz microwave radar, HD PTZ camera and RVS software server. Radar locates the target with position by active detection, then triggers PTZ camera for auto-tracking. With double identification of video analysis technology and AI algorithm, the system send out accurate alarm to the security monitor center.

With well-improved target detection and identification performance to build up a high safety environment, the system is widely deployed in prisons, border, military base, sea ports, airports, oil/gas field, power station, farm land, private estate etc.



## PRODUCT FEATURES

### Cost-Effective

Competitive cost and performance comparing with counter part

### High Efficient & Reliable

MTBF is above 50000 hours

### Intuitive, Comprehensive User-Friendly

Simple operation, open architecture to third party platform integration

### Intelligent, Active Detection Protection

Intelligent algorithms and AI learning ability;  
Fusion technology of vision and radar;  
Multi-targets detection and active alarming

### All Day & All Weather Protection

7x24h real-time detection even in harsh weather, IP66 protection class

## SPECIFICATIONS

Items	SP150WVF	SP450WVF
Detection Target	Animal human vehicles	Animal human vehicles
Output Data	Distance, direction, angle	Distance, direction, angle
Detection Range	1.5~100m for human	1.5~450m for human
	1.5~160m for vehicles	1.5~600m for vehicles
FOV	90° in Azimuth	90° in Azimuth
	13° in Elevation	13° in Elevation
Refresh Rate	8Hz	8Hz
Distance Accuracy	±0.5m	±0.75m
Azimuth Accuracy	±1°	±1°
Distance Resolution	1m	1.5m
Target Speed Range	-30m/s~30m/s	-30m/s~30m/s
Power	12V DC/POE	12V DC/POE+
System Interface	Ethernet	Ethernet
Radar Dimension	194x158x49mm	235x175x47.5mm
Radar Weight	1kg	1.65kg
IP Grade	IP66	IP66
Protect Zone Setting	Support customized protect zone drawing, timing deployment and withdraw	
Map	Electronic map	Support static map
Access Classification	Support different level of access Classification	
Support Camera Protocol	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, Bonjour	
Alarm	Prompt alarm tone	Prompt alarm tone
Alarm Record Playback	Support alarm record, customized search model and Excel sheet export	
Suggested Integrated Camera Parameter		
Camera Type	2M pixel, IR HD IP PTZ camera	2M pixel, IR HD IP PTZ camera
Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
Lens	5.2~104mm, 20X(optical)	5.9~135mm, 23X(optical)
IR	150m	200m



# Intelligent Radar Video Wide Area Panoramic Surveillance System SP500RVF

## PRODUCT OVERVIEW

SP500RVF is a wide-area panoramic security protection product launched for the high-level security requirements of various industries such as judicial, military, petrochemical, electric power, public security, and important ports. With array radar and visual fusion technology, the system can realize intelligent detection of targets in the intrusion area and realize initiative warning. It has the advantages of high detection accuracy, wide-area 360° panoramic protection, active detection and alarm, high protection level and all-day/weather operation.



## SPECIFICATIONS

Transmit Frequency	24.00~24.15GHz (licensed by China, the United States, Europe), FMCW
Detection Radius	Pedestrian (RCS 0.5m <sup>2</sup> ) ≥500m; vehicle (RCS 5m <sup>2</sup> ) ≥700m
FOV	360° full coverage
Azimuth Accuracy	±1°
Camera Speed	Azimuth : 0.1°-200°/s, Elevation: 0.1°-50°/s
Proportional Zoom	Support
Video Recognition	Moving targets such as people/cars/animals
Infrared Fill Light	≥500m
Target Speed Range	0.5m/s ~ 30m/s
Network Transmission	Built-in RJ45 network port, support 10M/100M/1000M network data

## PRODUCT FEATURES

### Radar Video Fusion Technology

Seamless integration of radar and video, realizing three-dimensional monitoring without blind spots

### Target Classification and Recognition

Target classification and recognition based on AI intelligent algorithms integrated with edge computing

### All Day&All-weather Protection

7×24 hours of continuous real-time monitoring of the whole area, not affected by the weather

### 360° Panoramic Video Monitoring

360°panoramic video and high-definition tracking video fusion and support local zoom

### Low False Alarm Rate

Reduced false alarm of swaying trees or low shrubs via intelligent algorithms

### User Defined Defense Zone

Support multi-target tracking, customized defense zone management



# Ground Surveillance Radar SP1000W

## PRODUCT OVERVIEW

SP1000W ground surveillance radar is a long range ground surveillance monitoring radar, which can detect targets (people) from a range of up to 1km. It's Mainly used for security alert in airports, prisons, critical venues , for facilities monitoring in oil Wells, oil fields and pipelines and other key industrial area, or for security monitoring in border port, borderline and other modern buildings and key area, providing the high reliable safety protection.



## PRODUCT FEATURES

### All-weather, all-day protection

7×24 hours of continuous real-time monitoring of the whole area, not affected by the weather

### Support object type classification, multiple motion mode detection, low false alarm

By using eye gaze technology, it can detect very slow moving targets, effectively detect various movement modes, and suppress ground clutter, trees, grass and other clutter interference

### Support multi-target tracking, defense zone management, warning line management

Radar support sustainable tracking of multiple targets, can record and report each track. The radar defense area can be customized to support radar defense area management and alarm line management

### Long range, wide angel coverage

It adopts planar multi-antenna receiving antenna array, DBF digital wave speed synthesis, high accuracy of angle measurement and distance measurement. Single array covering range up to 90 degrees, four arrays can achieve full coverage of 360 degrees, detection range of human (RCS=0.5 m<sup>2</sup>) up to 1.5 km

### Low transmission power, low power consumption, safe

FMCW working system, low transmitting power, safety to human body, low power consumption

### Adopt edge intelligent computing and environment intelligent perception to support radar networking

Adopt edge computing technology to intelligently perceive environment and configure radar algorithm. Support radar networking, facilitate integration with video surveillance equipment to realize radar & camera fusion

## SPECIFICATIONS

Transmitting Frequency	X band( 9.5 ~ 9.8GHz )
Detection Range	Human( RCS 0.5 m <sup>2</sup> )≥1000m
FOV	90° in Azimuth, 18° in Elevation
Distance Accuracy	1m
Azimuth Accuracy	1.5°
Distance Resolution	8.4m
MIN Detection Speed	0.3m/s
Near Range Blind Area	15m(Vehicle)
Power Supply	DC12V
Power Interface	Air plug
Communication Interface	Ethernet
Dimension	34cm*28cm*6cm
Weight	≤4kg
Consumption	≤30W















# ANTI-UAV DEFENSE SYSTEM

The MAERO Anti-UAV Defense System consists of detection unit, EO tracking unit and jammer device, which integrates target detection, tracking & recognition, command & control and jamming multi functions in one. Based on different application scenario, the system can be flexibly deployed into an optimal solution by choosing different detection unit and jammer device. AUDES can be used by fixed installation, portable type and vehicle mounted type. By fixed installation type, AUDES is widely used in high level security protection site and portable type is used a lot for temporary prevention & control in key conference, sport events, concert etc., vehicle mounted type is normally used for routine patrol or more.



## CHAPTER 02

-  Low Altitude Surveillance Radar SC-RM1000
-  Low Altitude Surveillance Radar SC-R3000/R5000
-  RF Scanner SC-S3000/S5000/S8000
-  PTZ Jammer SC-J1000W/SC-J3000
-  Camera Integrated Jammer SC-JC1000W
-  Omnidirectional Jammer SC-JA1000
-  Spoofing Jammer SC-SG1000
-  Handheld Integrated Detector & Jammer SC-SJ1000M



## Low altitude surveillance radar SC-RM1000

### PRODUCT OVERVIEW

SC-RM1000 Low-altitude surveillance radar is 3D space surveillance radar that aims at low-altitude small target, all-around, high elevation coverage area. It is mainly for real-time reconnaissance of aircraft targets within a small range. With advantage of Small near-end blind spot, fast target locking speed, SC-RM1000 can detect and track the target in real time, and report the target information to the designated platform.



### PRODUCT FEATURES

#### Modular Design

The telecommunication system and the mechanical structure both adopt modular design, based on different signal processing algorithms, and easy for multiple working model switching

#### Fully Automatic, All Day & All Weather Operation

Unattended operation can reduce the workload of personnel, and avoid electromagnetic radiation to the operators. It can work fully automatic, all day & all weather, and support flexible deployment

#### High Detection Accuracy

Adopting advanced digital signal processing technologies, the minimum detection speed is 0.3m/s. No matter what attitude the drone target breaks into the defense zone, it can be quickly positioned

#### Strong Environmental Adaptability

Based on the characteristics of radar clutter and target echo, adopting adaptive clutter suppression algorithm, adaptive target matching algorithm, and pre-detection tracking algorithm, the radar is good at detection of small signals in strong clutter background

### SPECIFICATIONS

Working Frequency	Ku band
System	FMCW
Scanning Mode	Two-dimensional turntable mechanical scanning
Detection Angle	Azimuth angle :0°~360°mechanical scanning ,Elevation angle :0°~10°
Measuring Dimensionality	Distance/azimuth/pitching angle/speed
Detection Range	>1.5km( Mini type UAV RCS=0.01m <sup>2</sup> )
Accuracy	Distance accuracy :≤1m ;Azimuth accuracy :≤1.6° ;Elevation accuracy :≤1°
Resolution	Distances≤2.3m ,Azimuth resolution :≤5° ,Elevation resolution :≤5°
Tracking Method	TWS/Continuously tracking
Weight	≤5kg





## Low altitude surveillance radar SC-R3000/5000

### PRODUCT OVERVIEW

Low-altitude surveillance radar is 3D space surveillance radar that aims at low-altitude small target, all-around, high elevation coverage area. It is mainly designed for real-time detection and tracking of air vehicle, ground human and vehicle target. Then target information will be transmitted and reported to management and control center. It can be installed by long-term fixed, vehicle mounted and temporary deployment, flexibly apply to different application scenarios.



### PRODUCT FEATURES

#### All-airspace Three-dimensional Detection

All-day & all-weather & large-scale area surveillance, effectively obtains three-dimensional position information like direction, distance and height(elevation angle) of the air vehicle, birds and other targets in surrounding. It features long range detection, high data rate

#### Target Tracking And Guiding

It is able to track the intended target in high data rate according to the users' options and then guide the high-accuracy angle measuring equipment, timely update the target position information

#### Strong Recognition Capability

Radar adopts full-automatic target classification and identification, high possibility of detection and identification of low-altitude small target

#### Strong Environmental Adaptability

It applies to different target detection requirement in multiple application environments. It is able to transmit target information and report to control management center, providing intelligence support for management center

### SPECIFICATIONS

<b>SC-R3000</b>	
Working Frequency	Ku band
System	Linear frequency-modulation pulse
Scanning Mode	360°horizontally mechanical scanning + vertically wide beam phased scanning
Detection Angle	Azimuth angle :0°~360°scanning ,Elevation angle :0°~60°
Measuring Dimensionality	Distance/azimuth/pitching angle/speed
Detection Range	> 3km( mini type UAV RCS=0.01m <sup>2</sup> ) ; > 5km( small size air vehicle RCS=0.2m <sup>2</sup> )
Accuracy	Distance accuracy :≤10m ;Azimuth accuracy :≤1° ;Elevation accuracy :≤1°
Resolution	Distance≤20m ,Azimuth resolution :≤3° ,Elevation resolution :≤5°
Tracking Method	TWS/Continuously tracking
Weight	≤18kg
<b>SC-R5000</b>	
Working Frequency	Ku band
System	Linear frequency-modulation pulse
Scanning Mode	360°horizontally mechanical scanning + vertically wide beam phased scanning
Detection Angle	Azimuth angle :0°~360°scanning ,Elevation angle :0°~60°
Measuring Dimensionality	Distance/azimuth/pitching angle/speed
Detection Range	> 5km( mini type UAV RCS=0.01m <sup>2</sup> ) ; > 10km( small size air vehicle RCS=0.2m <sup>2</sup> )
Accuracy	Distance accuracy :≤10m ;Azimuth accuracy :≤1° ;Elevation accuracy :≤1°
Resolution	Distance≤20m ,Azimuth resolution :≤3° ,Elevation resolution :≤5°
Tracking	TWS/Continuously tracking
Weight	≤20kg

# RF Scanner

## SC-S3000/S5000/S8000

### PRODUCT OVERVIEW

I'M AERO RF Scanner is developed to search&detect the moving target in low altitude (100~1000m) and super low altitude (under 100) in all-direction and all-weather. It can detect the UAV target and early warning by analyzing and recognizing the UAV control signal and data link return signal. What's more, multi-passive radar networking can realize direction and distance measurement for UAV and its controller. One passive radar can find the UAV direction by detecting its radiation electromagnetic wave signal. Two or more passive radar networking can cross cover a area where working UAV can be located by radiation electromagnetic signal or the control signal under triangulation measurement.



### PRODUCT FEATURES

#### Passive Detection

No electromagnetic signals emission, environmental-friendly

#### Structural Integration

With integrated design, only one data cable is needed to connect the front end device with command center

#### High Real-time Performance, Low Missing Alarm Rate

Signal receiving, RF processing, and signal processing are all completed at the front end, which enable the detection data being real-time ; unique micro signal identification technology ensures accurate and reliable detection results and greatly reduces false and miss alarm rate

#### All Day, All Weather, All Direction Protection

Applicable to complex electromagnetic environments and climate ,7\*24 hours protection ,360° monitoring in real-time

#### Easy Installation, Wide Application

Fixed installation on pole for long term protection for areas demanding high security level; Installation on Tripod for temporary protection tasks such as important conferences and large events

#### White List Filtering

Able to distinguish between invasion and non-invasion target

#### Extensible

Multi passive radar networking can cross-locate the target, extend protection scope and improve target location accuracy

### SPECIFICATIONS

	SC-S3000	SC-S5000	SC-S8000
Detection Range	3Km	5Km	8Km
(@drone TX Power 0.1W)			
Detecting Frequency Range	70MHz~6GHz	70MHz~6GHz	300MHz~6GHz
Detection Signal	UAV digital transmission signal, UAV remote control signal, WiFi system UAV signal	UAV digital transmission signal, UAV remote control signal, WiFi system UAV signal	UAV digital transmission signal, UAV remote control signal, WiFi system UAV signal
Detection Direction	All direction 360	All direction 360	All direction 360
Detection Accuracy	≤3°( RMS )	≤3°( RMS )	≤3°( RMS )
Device Dimension	D 455 x H 265mm	D 600 x H 300mm	D750xH400mm
Communication Port	LAN	LAN	LAN
Installation Method	Fixed installation/ Portable tripod installation	Fixed installation/ Portable tripod installation	Fixed installation/ portable tripod installation
Detection Time	≤3s	≤3s	≤2min
Power Supply	AC110~220V	AC110~220V	DC 24V
Power Consumption	≤20W	≤60W	≤75W
Weight	< 8kg	≤15kg	≤30kg
Working Temperature	-40°C~65°C	-40°C~65°C	-40°C~65°C
Protection Class	IP65	IP65	IP65





## PTZ Jammer SC-J1000W/SC-J3000

### PRODUCT OVERVIEW

The ptz jammer blocks the communication link between the drone and the remote controller by transmitting electromagnetic wave signals and interrupts the drone receiving satellite navigation signals. Thereby, it forces the drone return flight or landing immediately. The PTZ jammer is mainly composed of the jammer and its servo swivel table, with long-distance and all-round control capability of the drone.



### PRODUCT FEATURES

#### Multi-band Interference

Function on frequency including 800MHz, 900MHz, 1.5GHz, 2.4GHz, 5.8GHz covering most of the UAV communication and navigation frequency bands

#### Long-distance Precision Directional Jamming

Based on two-dimensional swivel table, the jammer can quickly & precisely target at the drone and control it

#### High Maturity

Integrated design, equip the jammer with a two-dimensional swivel table. Jammer amplifier, multi-band antenna, control board, are integrated all-in-one

#### Easy To Install And Wide Application

Fixed pole installation can meet the protection needs of long-term deployment in key areas; It can also be quickly erected with a tripod to meet temporary task protection needs such as important meetings and gathering activities

### SPECIFICATIONS

SC-J1000W	
Jamming Range	≥1Km (@ Target with 0.1W TX power)
Jamming Effective Time	≤3s
Operation Frequency	Navigation band: 1.5GHz( GPS, BEIDOU B1, GLONASS ) Remote control frequency band: 800MHz/900MHz/2.4GHz/5.8GHz
PTZ Coverage	360°
PTZ Speed	≥60°/s
Power Supply	AC110~220V
Communication Interface	Ethernet
Working Temperature	-20°C~60°C
SC-J3000	
Jamming Range	≥3k m(@ Target with 0.1W TX power)
Jamming Effective Time	≤3s
Operation Frequency	Navigation band: 1.5GHz( GPS, BEIDOU B1, GLONASS ) Remote control frequency band: 800MHz/900MHz/2.4GHz/5.8GHz
PTZ Coverage	360°
PTZ Speed	≥60°/s
Power Supply	AC100~240V/50~60Hz
Communication Interface	Ethernet
Working Temperature	-20°C~60°C





## PRODUCT FEATURES

### Integration Of Reconnaissance And Spoofing

The functional units such as the signal simulation generator, transceiver antenna, control board, power supply unit are all integrated in a cavity to realize 24-hour detection and identification, and automatic initiate the spoofing function

### Environmental Friendly

The signal transmission power is in the milliwatt level, with minimal impact on human and the electromagnetic environment

### Sector Management

360° full coverage, and directional antenna can also be configured to achieve directional management and control of key areas

### Easy Installation And Wide Application

It is can be fixed on pole or wall armed, with regular appearance and good concealment

## Spoofing Active Defense System SC-SG1000

### PRODUCT OVERVIEW

SC-SG1000 active defense system integrates RF scanner unit and spoofing unit in one. A single unit is equipped with detection and spoofing function a the same time. The detection unit detects and recognizes the uplink and downlink of remote control signals and data image transmission signals of the drone to realize the early warning of the drone intrusion. Meanwhile, the spoofing unit, based on simulated satellite technology, transmits strong satellite signal with faked location information to the drone. By competing with the real satellite signal in orbit, it makes the drone locating system deceived and could not locate its own real position. As a result, the drone cannot fly according to the predetermined path, and realizes the no-fly control of the drone.



## SPECIFICATIONS

Parameter	GPS	BDS	GLONASS
Center Frequency	1575.42±1.023MHz	1561.098±2.046MHz	1598~1605MHz
Default Transmitted Power	< 10dBm	< 10dBm	< 10dBm
Adjustable Power Range	-34 ~ 32dBm	-34 ~ 32dBm	-38 ~ 29dBm
Default Operating Range	> 500m		
Maximum Range	≥3000m		
Coverage Angle	Omnidirectional 360°		
Communication Interface	Ethernet		
Control Protocol	Customized protocol		
Power Supply	AC110~220V		
Power Dissipation	< 30W		
Working Temperature	-20 ~ +60°C		
IP Grade	IP66		
Explosive-proof Level	ExIIc		
Weight	< 10KG		
Dimension	Diameter ( 435±5 )mm ; Height ( 300±5 )mm		

## Camera Integrated Jammer SC-JC1000W

### PRODUCT OVERVIEW

The Camera Integrated PTZ Jammer is mainly composed of the jammer, its servo swivel table and electronic-optical unit. The ptz jammer blocks the communication link between the drone and the remote controller by transmitting electromagnetic wave signals and interrupts the drone receiving satellite navigation signals. Thereby, it forces the drone return flight or landing immediately. The electron-optical unit is equipped with visible and thermal infrared camera, which is able to track and record the drone target day and night.



### PRODUCT FEATURES

#### Multi-band Interference

Cover most of the UAV communication and navigation bands, Users can set required jamming frequency band freely within the range

#### Easy To Install And Wide Application

Fixed pole installation can meet the protection needs of long-term deployment in key areas; It can also be quickly erected with a tripod to meet temporary task protection needs such as important meetings and gathering activities

#### All Day Video Forensics

Visible light & thermal infrared camera to identify, track and record intrusion targets day and night, easy for law enforcement to obtain evidence

#### High Maturity

Integrated design, equip the jammer with a two-dimensional swivel table and dual camera; Jammer amplifier, multi-band antenna, control board, are integrated all in one

### SPECIFICATIONS

Jamming Range	≥1Km/3Km (@ Targte with 0.1W TX power)
Jamming Effective Time	≤3s
Operation Frequency	Navigation band: 1.5GHz( GPS、BEIDOU B1、GLONASS ), Remote control frequency band: 800MHz/900MHz/2.4GHz/5.8GHz
Camera	Resolution :1920*1080P( visible )/640*480( thermal image )optional
PTZ Coverage	Tracking ability :2km/1km( day )、1km/0.5km( night )optional; Azimuth 0° ~ 360° ,Elevation -15° ~ 75°
Interference-signal Ratio	10:1
Communication Interface	Ethernet
Power Supply	AC110~220V

## Omnidirectional Jammer SC-JA1000

### PRODUCT OVERVIEW

Omnidirectional Jammer blocks the communication link between the drone and the remote controller by transmitting electromagnetic wave signals and interrupts the drone receiving satellite navigation signals. Thereby, it forces the drone return flight or landing immediately. Featured with 360-degree full jamming coverage at real time, omnidirectional Jammer support long-term protection and extreme high security level guarantee.



### PRODUCT FEATURES

#### Multi-band interference

Function on frequency including 800 MHz , 900MHz、1.5GHz、2.4GHz、5.8GHz

#### High jamming efficiency

Specially designed for mainstream UAV, the interference distance is calibrated with the UAV with strong anti-interference ability to ensure countermeasure effect

#### Highly integrated

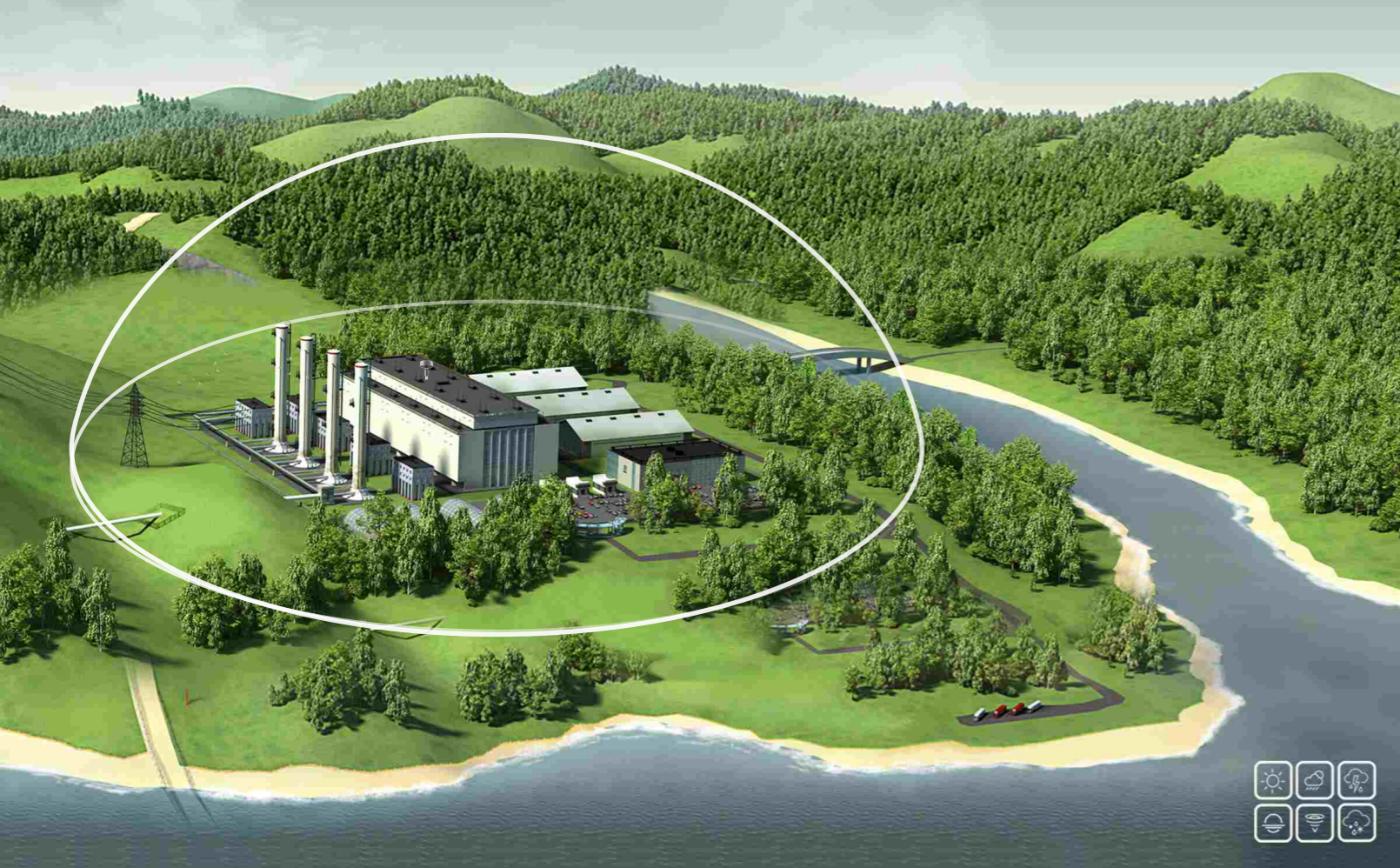
Jammer amplifier, multi-band antenna, control board, are integrated all in one, without external connection

#### All-round Protection

360° jamming capability, superior performance in close-range protection

### SPECIFICATIONS

Jamming Range	≥1Km(@ Targte with 0.1W TX power)
Transmitting Power	Per frequency bands≤30W
Operation Frequency	900MHz、1.5GHz、2.4GHz、5.8GHz
Coverage	360°
Interference-signal Ratio	10:1
Power Supply	AC110~220V
Communication Interface	Ethernet
Sector Antenna Number	≥8
Working Temperature	-20 ~ +60°C
Protection Class	IP65
Weight	≤20kg
Dimension	D480mm*H288mm



## PRODUCT FEATURES

### Programmable

Software-defined jammer, which can customize the interference frequency and bandwidth according to the mainstream market drones frequency band

### Target Direction Finding & Warning

After identifying the drone target, the device can give sound and light warning, and it can display the drone model, orientation, reference distance and other information on LED screen

### Passive Detection & Directional Control

It adopts radio detection which can detect the 2.4GHz and 5.8GHz mainstream drone in the market. The directional interference antenna design has strong directivity and long interference distance

### Platform Management

Based on the new generation of the IoT information technology, the front-end equipment coordinate position, attitude orientation, and event logs are reported to the back-end management and control platform in real time, realizing a panoramic view of the situation. It can be extended to build a flexible low-altitude security system

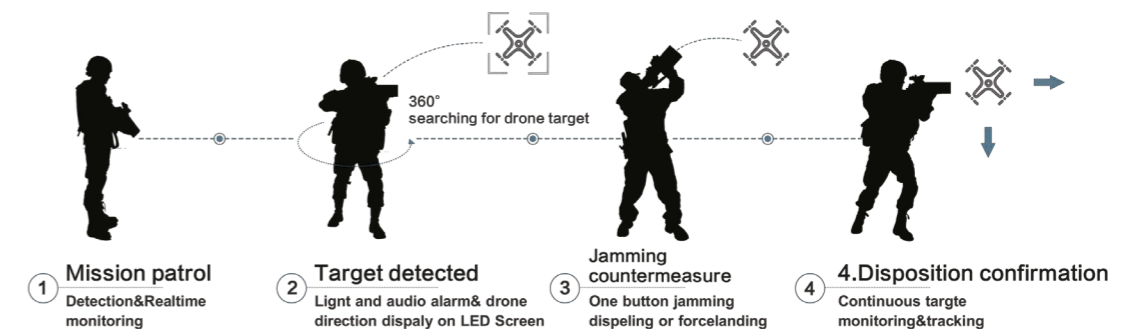
### Portable And Easy To Use

The product adopts lightweight materials, and easy to carry; one-button start design, simple operation, readily available

## Handheld integrated detector & jammer SC-SJ1000M

### PRODUCT OVERVIEW

SC-SJ1000M integrates detection, countermeasures, display & control, and power supply all in one. It solved the problem found in the traditional portable jammers which only rely on naked eyes searching for drones with high missing rate. The device is in small size, light weight, and has good mobility, which is suitable for low-altitude protection tasks for important meetings, large events, and daily patrols in fixed places, etc. It can be interconnected with I'M AERO Anti-drone Defense System command terminal and the integrated command platform through a wireless network at multiple levels and combining with other AUDS equipment, to intelligentize the information fusion, and unify the platform management. In this case, all resource can be utilized in maximum to construct a new type of supervision network for drones.



### SPECIFICATIONS

Detection Frequency Band	2.4GHz, 5.8GHz
Jamming Frequency Band	The default frequency bands cover 900MHz, 1.5GHz, 2.4GHz and 5.8GHz. The frequency band can be defined by software, and each frequency band can work or shut off independently
Effective Detection Distance	≥1.5km
Effective Interference Distance	≥1km (0.1W radiation source)
Interference To Signal Ratio	<10:1
Duration	≥1h
Dimension	<500mm*300mm*100mm
Weight	≤3.5kg (battery included)





Integrated radar&video management system (IRVMS-5000)

PRODUCT OVERVIEW

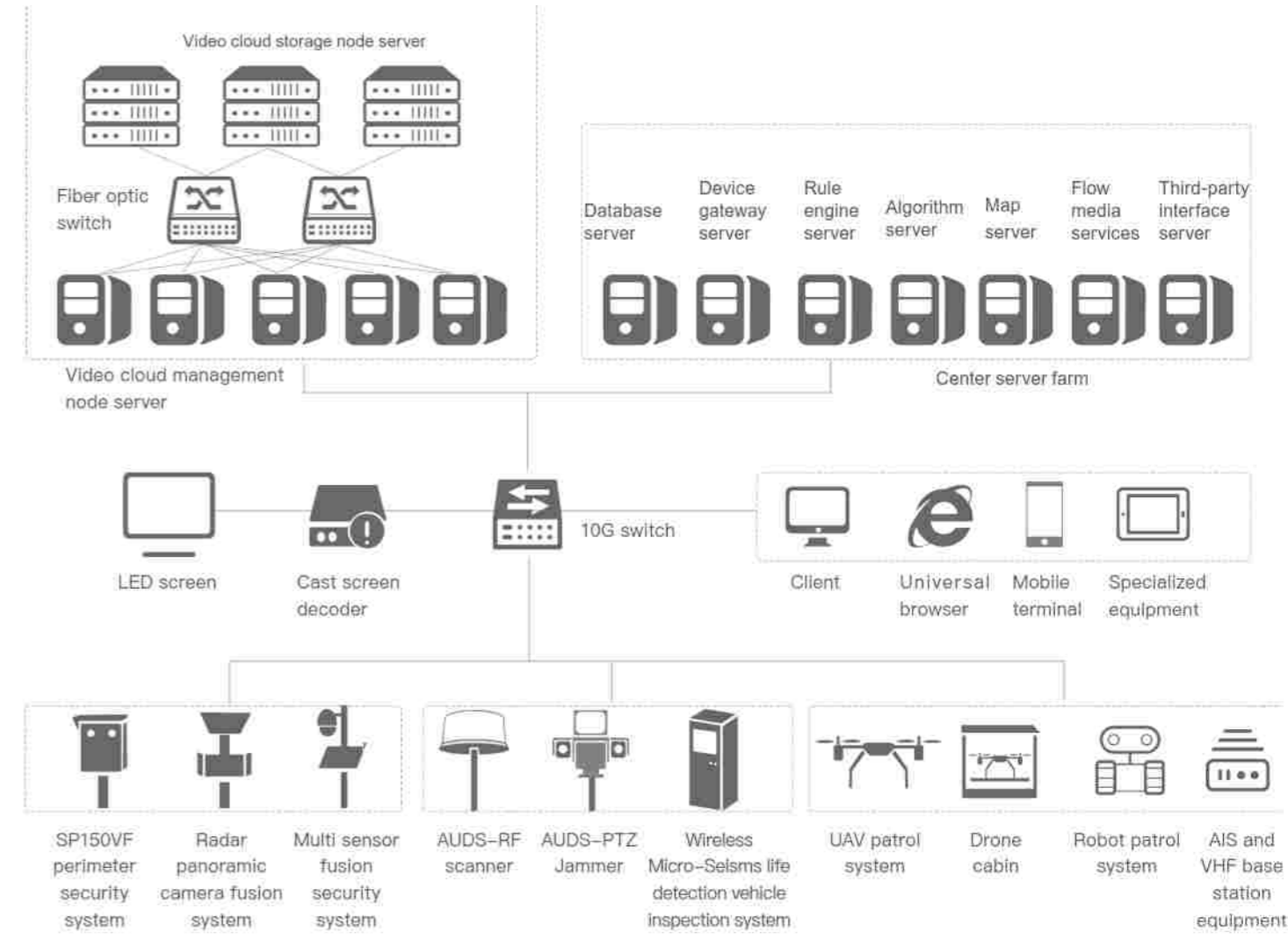
The IRVMS-5000 platform can achieve full-scale, three-dimensional protection for sea, land, low altitude. It support management of all devices, which can detect the intruder(ex. people, vehicles, drones, ships, frogmen, etc.) from ground, underwater, air and perform corresponding disposition. The platform has built-in IVMS video surveillance subsystem, perimeter and wide area security subsystem, low-altitude Anti-UAV defense subsystem, water surface & underwater intrusion early warning subsystem, integrated access control subsystem, drone/unmanned vehicle patrolling Subsystem, and can integrate with the third-party security systems, or integrated by third-party security systems. The IRVMS-5000 platform is suitable for security application in various industries. The system support customization for special industry application and provide an integrated all terrain intelligent security management and control platform(ex. IRVMS-6000, IRVMS-6100, IRVMS-7000, IRVMS-8000, etc.) . The industry-level all terrain intelligent security solution based on this platform provides one package service for judicial, public security, petroleum and other industries to raise the security levels and improve the protection efficiency.

PRODUCT FEATURES

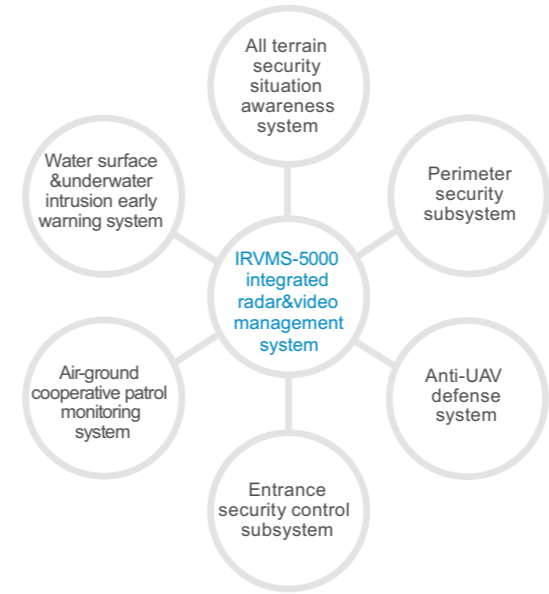
- Support BI Visualization**  
Based on Linux platform development, it can run on an autonomous and controllable platform composed of hardware and software such as Feiteng, Godson, Kirin, etc. It supports one-dimensional static pictures, two-dimensional vector maps, three-dimensional maps, etc
- Configurable Linkage Strategy**  
Introduce a powerful open source rule engine, which can dynamically configure device linkage rules through the rule engine management interface, without restarting background services, to achieve hot deployment. The platform has built-in multiple business rule strategies, which can be more convenient for users to use directly

- Intelligent Data Fusion**  
The platform supports multi-sensor access, uses AI core technology to realize intelligent early warning, data analysis and judgment, and helps the users to transform for digitalization office
- Abundant SDK & Algorithm**  
The platform provides sensor SDK development kit, including: RF Scanner, jammer, photoelectric, radar, temperature and humidity, etc., with DEMO programs in C/C++, C#, Java and other development languages. It also provides a variety of algorithm support, including: mixed Gaussian background Modeling, KCF tracking algorithm, AI deep learning algorithm, etc

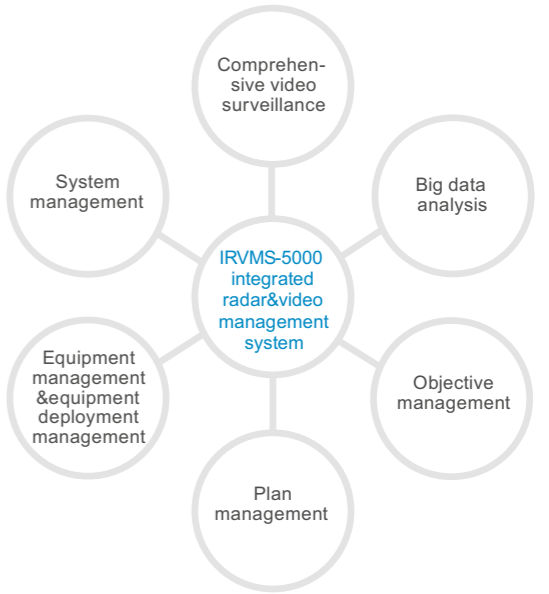
NETWORK TOPOLOGY DIAGRAM OF ALL TERRAIN INTELLIGENT SECURITY PLATFORM



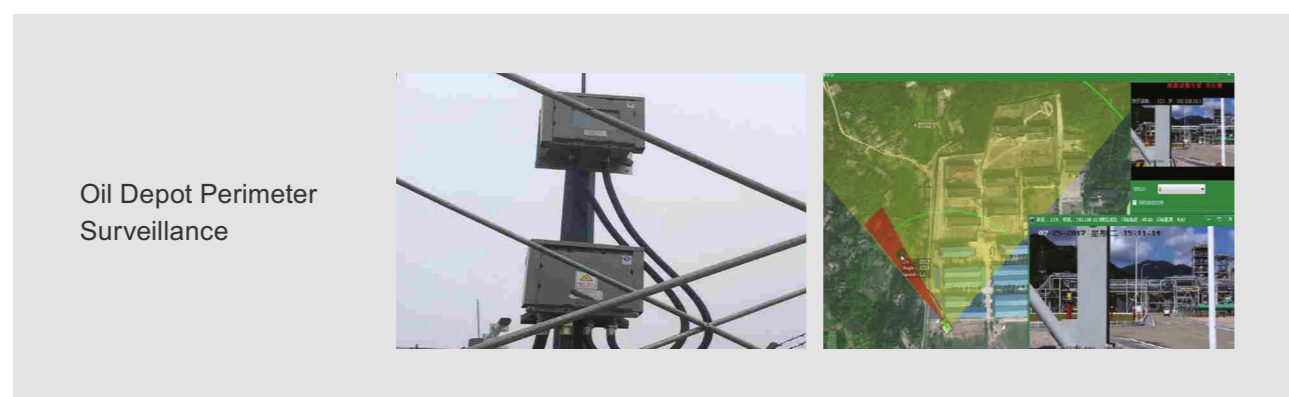
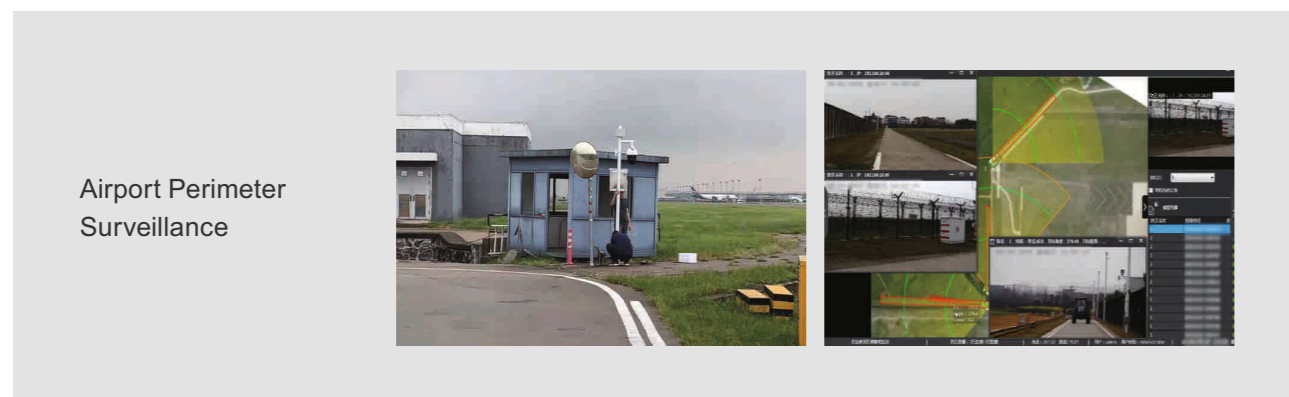
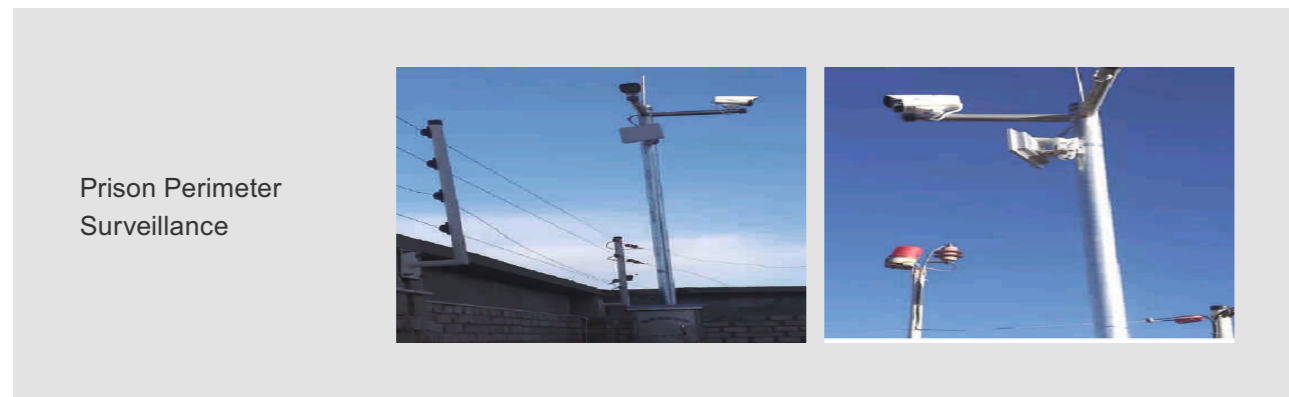
PLATFORM APPLICATION FEATURES



PLATFORM BASIC FUNCTIONS



Job Reference  
Entrance Control&Perimeter Security System Typical Case



Anti-UAV Defense System Typical Case

