



LOW ALTITUDE SECURITY
C-UAS SYSTEM PRODUCT SERIES

BUILDING A SAFE WORLD

China Hongkong Xinxing Company Limited by Shares

Mail

xiaoqing791025@gmail.com

Tel·Fax

+8618657979930

Add

B7 Lugu Compark,
No.27 Wenxuan Road,
Hi-tech District Changsha

ALL-TERRAIN SECURITY

The low-altitude defense system mainly consist of detection, identification, tracking, positioning and countermeasure of invading "low, slow and small" drones. With radar and RF detector, the drone is detected and identified in real time. The alarm information is reported to the software platform, and the target information and flight trajectory are displayed. The system has independently developed command and control platform software. It is currently widely used in industries and scenarios such as the military, public security, airports, justice, electricity, petrochemicals, and industrial park.



Low-Altitude Security



Intelligent Low-altitude Defense Platform



LOW-ALTITUDE SECURITY

Array Radar NI-SR5000

PRODUCT OVERVIEW

The array radar equipment is a pulse Doppler three-coordinate radar with azimuth scanning and elevation scanning. It is an X-band phased array radar that adopts a fully solid-state, fully coherent system and can effectively detect and warn "low, small, and slow" targets . This radar can accurately detect the spatial position of the target, which can be linked with an optoelectronic system or cascaded with countermeasures such as jamming, laser weapons, and navigation deception.

PRODUCT FEATURES



Advanced technical system

It has high detection capability, high recognition capability, high adaptability and low false alarm rate for low-altitude, ultra-low-altitude, slow-speed small targets.



Multi-dimensional precise detection

It can realize the multi-dimensional accurate detection of low-altitude and ultra-low-altitude targets in three coordinates (distance, azimuth, altitude) and speed.



Strong detection capability for low, slow and small targets

Realize long-distance detection and identification and classification of low-altitude, slow-moving, small targets such as birds, drones, helicopters, and balloons.



Continuous generation of low-altitude multi-target tracks

Realize continuous track generation, tracking and multi-mode display of multiple targets in low-altitude environment, including PPI/B display, point track, temporary track/stable track, etc.

SPECIFICATIONS

Working frequency band	X-band
Scanning mode	Phase scanning
Detection angle	Azimuth: 0°~360° scanning, pitch angle coverage range 0~60°
Detection radius	≥3km /5km(RCS=0.01m²)
Detection accuracy	Distance accuracy: <10m, azimuth accuracy: <0.6°, pitch accuracy: <0.6°
Tracking accuracy	Distance accuracy: <10m, azimuth accuracy: <0.5, pitch accuracy: <0.5
Refresh rate	3s~6s, depending on the pitch coverage



Omnidirectional Array Radar NI-QR5000

PRODUCT OVERVIEW

The X-band Omnidirectional array radar is composed of four two-dimensional phased arrays and adopts a fully solid-state, fully coherent pulse Doppler system. It can effectively detect and warn "low, small and slow" targets in all weather conditions. The radar can search and track targets in the entire airspace at 360 degrees and has the function of tracking multiple targets at the same time. It has higher reliability than mechanical scanning radars.



SPECIFICATIONS

Working frequency band	X-band
Scanning mode	Phase scanning
Detection angle	Azimuth: 0°~360° scanning, pitch angle 0°~30° (configurable, 60° range)
Detection radius	≥5km (drone, RCS=0.01m²)
Refresh rate	<3s (configurable, according to pitch coverage)
Tracking function	With TAS function

PRODUCT FEATURES

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🔄 Continuous generation of low-altitude multi-target tracks

Realize continuous track generation, tracking and multi-mode display of multiple targets in low-altitude environment, including PPI/B display, point track, temporary track/stable track, etc.



RF Detector NI-S3000+

PRODUCT OVERVIEW

RF Detector NI-S3000+ is based on AOA+interferometric composite direction finding technology, which has the functions of UAV detection and early warning, model identification and track playback within the whole frequency band, and the expansion of multiple sets of equipment can realize the accurate positioning of TDOA multiple stations. The equipment works as passive detection, which will not actively generate electromagnetic signals. Therefore, it is green and safe.



PRODUCT FEATURES

Multi-category drone detection

Precise detection and positioning can be realized for most consumer-grade drones. At the same time, non-DJI drones can also be detected and identified and accurately oriented.

All-weather, all-day, all-round

Applicable to complex electromagnetic and climatic environments, not affected by lightning, hazy weather, night vision, can realize 7 * 24 hours 360 ° all-round real-time monitoring.

High real-time and low leakage rate

All of the signal reception, RF processing, and signal processing are completed at the front-end of detection, which improves real-time information detection. The unique tiny signal recognition technology ensures that the recognition results are accurate and reliable, which greatly reduces the rate of false alarms and leakage.

TDOA network positioning capability

TDOA accurate positioning can be realized through the network deployment of detection equipment, expanding the detection and warning area, and improving the accuracy of detection and positioning of UAVs in the monitoring area.

SPECIFICATIONS

Detection Coverage Frequency Band	800MHz~6GHz
Detection Range	horizontal 360° omni-directional
Accuracy	≤3°, support multi-station TDOA network positioning
Detection Radius	≥3km (open environment, UAV transmit power 0.1W)
Protocol Resolution Positioning Accuracy	≤2m
Remote Control Positioning Accuracy	≤2m
Video Recognition	positioning accuracy of multi-station equipment inside the station ≤30m; positioning accuracy outside the station ≤100m
Power Consumption	≤70W
Power Supply Requirements	AC220V±10%, 50Hz
Size	≤φ450mm × 270mm
Weight	≤9KG



RF Detector NI-S5000+

PRODUCT OVERVIEW

RF Detector NI-S5000+ detects, identifies and locates the uplink and downlink remote control signals and mapping signals of drones, thus realizing the detection, tracking and warning of drones (remote control). RF Detector works as passive detection equipment, which will not actively generate electromagnetic signals. Therefore, it is green and safe.



PRODUCT FEATURES

Full-frequency detection

Full-frequency detection can accurately identify most consumer drones, WIFI-type toys, DIY traverser, analog/digital mapping, and more than a hundred other models.

High real-time and low leakage rate

All of the signal reception, RF processing and signal processing are all completed at the front-end of detection, which improves the real-time information detection. In addition, the unique micro-signal recognition technology ensures accurate and reliable recognition results, greatly reducing the rate of false alarms and missed alarms.

TDOA+AOA+Protocol resolution composite passive positioning technology

accurately measure the direction of UAV targets in a single station, and also locate the position of most UAVs and corresponding remote controls through protocol resolution, and realize TDOA accurate positioning when deployed in multiple stations.

All-weather, all-weather, all-round

Suitable for complex electromagnetic and climatic environments, not affected by lightning, hazy weather, night vision, can realize 7 * 24 hours 360 ° all-round real-time monitoring.

SPECIFICATIONS

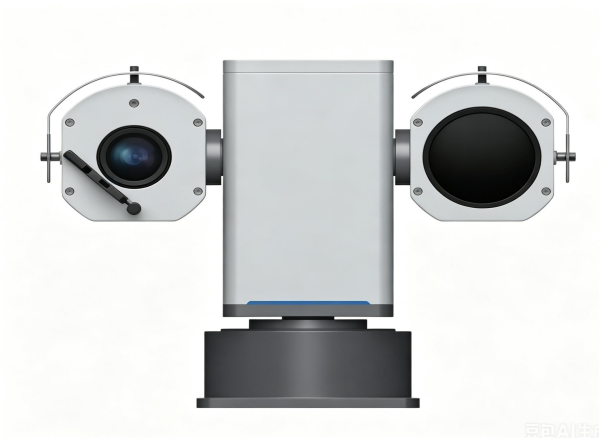
Detection Coverage Frequency Band	300MHz-6GHz
Detection Range	horizontal 360° omni-directional
Accuracy	≤3° (rms)
Detection Radius	≥5km (open environment, UAV transmit power 0.1W)
Detection Height	≥1000m
Protocol Resolution Positioning Accuracy	≤2m
Remote Control Positioning Accuracy	≤2m
Multi-station TDOA Positioning Accuracy	inside the station ≤ 30m;outside the station ≤ 100m
Power Consumption	≤120W
Power Supply Requirements	AC220V±10%, 50Hz
Size	≤φ610mm × 440mm
Weight	≤16KG



Photoelectric Tracking Device NI-C2000I

PRODUCT OVERVIEW

The photoelectric tracking device has a built-in high-definition visible light fog-penetrating network camera, a thermal imaging camera, and a built-in intelligent target detection and tracking algorithm to realize 24-hour uninterrupted target recognition and tracking in visible light, low illumination, severe fog and haze weather, and at night. The fuselage is made of high-strength shock-absorbing alloy die-casting shell, with three-proof spray coating as a whole, heat insulation, high temperature and cold resistance, impact resistance, corrosion resistance, and good wind resistance and shock absorption performance.



SPECIFICATIONS

Recognition distance (visibility 20 km) For small drones (0.3*0.3m)	Thermal Imaging: not less than 1 km visible light: not less than 2 km
Tracking mode	Manual, automatic, radar linkage
Intelligent	Target recognition alarm, regional intrusion alarm, cross-border alarm, sensor linkage alarm upload
Power supply	AC220V±10%, 50Hz
Power consumption	Normal working ≤ 30W, startup peak ≤ 40W
Dimension	≤ 350mm × 250mm × 190mm
Communication Interface	1 RJ45 10M/100M adaptive Ethernet port
Operating temperature	- 40°C-60°C

PRODUCT FEATURES

Intelligent Edge Computing

It uses deep learning algorithms to detect the shape and running posture of the target, and intelligent algorithms such as long-term moving targets and inertial navigation to be embedded in the device.

Long-range detection and target discovery

Integrated advanced synchronous automatic zoom and fast focusing algorithm.

High precision PTZ

High-precision servo motor control, providing high-precision preset and self-learning trajectory, using full digital control, can quickly locate and continuously track and scan, realize all-round, no blind spot monitoring, and support self-locking.

Multispectral all-weather monitoring

Visible light and laser infrared supplementary light integrated detection, adapt to a variety of harsh weather environments.



IR Tracking Camera NI-C3000

PRODUCT OVERVIEW

The IR Tracking Camera has a built-in high-definition visible light fog-penetrating network camera and thermal imaging camera, and a built-in intelligent target detection and tracking algorithm, which can realize 24-hour uninterrupted target identification and tracking in visible light, low illumination, severe fog and haze weather, and night. The camera adopts a high-strength shock-absorbing alloy die-cast shell, with overall three-proof spray coating, heat insulation, high temperature and severe cold resistance, impact resistance, corrosion resistance, and good wind resistance and shock absorption performance.



SPECIFICATIONS

Detection distance	For small drones (0.3*0.3m), thermal imaging>1.5km, visible light>3km
Tracking mode	Supports target detection, identification and tracking functions, and can be linked to alarm and disposal; supports automatic classification and identification
Intelligent	Horizontal 0~360° continuous unlimited rotation, vertical -45°~+90°
Range	Horizontal keying speed 0°~80'/s, vertical keying speed 0°~60°/s
Rotation speed	Manual, automatic, radar linkage
Positioning accuracy	+0.02°
Preset position	256

PRODUCT FEATURES

All-day monitoring

Integrated high-definition visible light and uncooled thermal imaging, dual-band detection advantages complement each other, making the target invisible and meeting the monitoring needs in day and night and all-weather environments.

High control accuracy

It adopts worm gear transmission, high-precision servo motor control, high-precision preset position and self-learning trajectory, supports setting key areas of concern, and supports self-locking, which is suitable for equipment self-protection after the dynamic platform is powered off.

Built-in intelligent tracking and recognition algorithm

The camera has a built-in deep learning tracking algorithm, which can realize radar or rf detector guided rapid locking, automatic identification and tracking, and manual locking and tracking; it can automatically adjust the focal length and focus of the lens according to the size of the target in the video screen.

Stable and reliable, high protection level

The spherical design is resistant to strong winds, has low agitation, and provides stable and clear imaging. It also adopts a rainstorm and dust proof design, and has lightning protection, surge protection, and corrosion resistance.



Multispectral intelligent EO tracking device VT3510

PRODUCT OVERVIEW

This device is designed for the identification and tracking of low, small and slow targets. It is built in with an intelligent target detection and tracking algorithm, enabling all-weather 24/7 uninterrupted target identification and tracking under conditions such as visible light, low illumination, severe hazy weather and nighttime. The fuselage features a high-strength shock-absorbing die-cast alloy housing with an overall tri-proof coating, providing heat insulation, high and low temperature resistance, shock resistance and corrosion resistance, as well as excellent wind and shock resistance performance.



SPECIFICATIONS

Detection Distance	For small drones (0.3*0.3m), thermal imaging>1km, visible light>3.5km
Tracking Mode	Manual, Automatic, Radar Linkage
Thermal Imaging Lens Focal Length	75mm
Maximum Resolution	2688*1520
Visible Light Focal Length	6.1~561mm 92x Optical Continuous Zoom
Gimbal Positioning Accuracy	≤0.01°
Power Consumption	≤300W
Weight	≤20Kg

PRODUCT FEATURES

Intelligent Edge Computing

The device is built in with a variety of intelligent algorithms, supporting plug-and-play direct connection with the backend platform and suitable for rapid deployment in small and medium-sized scenarios.

Accurate Tracking and Identification

Guided by radar or multi-station RF positioning information, the device can prevent target loss caused by short-time occlusion and is equipped with multiple alarm functions to ensure the monitoring safety at medium and short distances.

High-power Zoom Detection

Integrated with advanced synchronous auto zoom and fast focusing algorithms, it features 92x optical continuous zoom and synchronous auto focusing based on the size of the target field of view, enabling visible light tracking at a distance of ≥3.5km for accurate and efficient short-distance detection.

Lightweight and Flexible Operation

With a fuselage weight ≤20Kg and a gimbal positioning accuracy ≤0.01°, the device adopts a lightweight design and is equipped with high-precision stepper motors, allowing more flexible deployment and tracking.



Multispectral intelligent EO tracking device VT5020

PRODUCT OVERVIEW

This device is designed for the identification and tracking of low, small and slow targets. It is equipped with built-in intelligent target detection and tracking algorithms, enabling all-weather 24/7 uninterrupted target identification and tracking under visible light, low illumination, severe haze weather, nighttime and other conditions. The fuselage adopts a high-strength shock-absorbing die-cast alloy housing with an integrated tri-proof coating, featuring heat insulation, resistance to extreme high and low temperatures, shock and corrosion resistance, as well as excellent wind and shock resistance performance.



SPECIFICATIONS

Detection Distance	For small drones (0.3*0.3m), thermal imaging>2km, visible light>5km
Tracking Mode	Manual, Automatic, Radar Linkage
Thermal Imaging Lens Focal Length	23~225mm 10x Optical Continuous Zoom
Maximum Resolution	2688*1520
Visible Light Focal Length	15~775mm 52x Optical Continuous Zoom
Gimbal Positioning Accuracy	≤0.01°
Power Consumption	≤300W
Weight	≤90Kg

PRODUCT FEATURES

Intelligent Edge Computing

The device has a powerful built-in computing capacity. It adopts deep learning algorithms for the shape and motion posture of detected targets, and embeds intelligent algorithms such as long-term moving target and inertial navigation as supplements in the device. It supports direct connection of various backend platforms to the device to complete intelligent applications.

Automatic Tracking and Identification

Guided by radar or multi-station RF positioning information, it can automatically lock and track flying targets. The short-time anti-occlusion tracking function ensures that the device can still lock and track the target without loss when short-time occlusion is caused by jungles, shrubs, branches and other obstacles.

Long-distance Detection and Target Acquisition

Integrated with advanced synchronous auto zoom and fast focusing algorithms, the lens quickly zooms to the specified multiple according to the size of the target field of view and simultaneously focuses on the specified position. This avoids problems such as inaccurate system judgment, improper focusing, large control delay and target loss caused by manual focusing when the drone is at a long distance.

High-precision Gimbal

Equipped with high-precision stepper motors, it provides multiple high-precision preset positions and self-learning trajectories. Adopting full digital control, it can realize arbitrary and rapid positioning as well as continuous tracking and scanning.



Full-band Radio Jammer NI-J5000+

PRODUCT OVERVIEW

Full-frequency Jammer NI-J3000+ adopts open dexterity jamming technology, which can suppress the receiving channels of UAV's navigation signals, remote control signals, and image transmission signals, so that the UAV can not be positioned, lose control, and thus realize the purpose of rejecting the intruding UAV. With fast frequency scanning speed, high antenna energy density, and strong frequency variability, it is widely used in UAV frequency hopping control signal jamming, and the digital modulation source design can quickly generate new system UAV jamming signals. The suppression efficiency ratio is obviously improved, and the jamming response time is shortened, which is suitable for urban station deployment requirements. The jamming equipment uses intelligent servo system as the motion carrier, with long-distance and 360° UAV target control capability.



SPECIFICATIONS

Frequency Band	300MHz~6GHz software customized frequency band
Jamming Distance	≥5km (0.1W radiation source)
I/C Ratio	≥10:1
Jamming Angle	Horizontal: 0~360°; Elevation: 75°~-15°;
Antenna Emission Angle	≥90° (<2G) ; ≥50° (2G-4G) ; ≥30° (>4G)
Transmit Power	≥100W per jamming module, with jamming transmit power software-adjustable
Jamming Activation Time	≤3s
Power Consumption	≤1300W
Weight	≤38kg

PRODUCT FEATURES

Full-band Jamming with Adjustable Output

Equipped with full-band jamming capability covering 300MHz-6GHz, it encompasses most of the drone communication and navigation frequency bands available on the market. The jamming device allows software-based custom configuration of key jamming parameters including jamming frequency points, bandwidth, power, scanning cycle, signal source type and jamming duration.

High Countermeasure Capability

The digital jamming source supports signals with various modulation formats, effectively countering all types of consumer and unconventional drones. A dual-polarized antenna design is adopted for key frequency bands to ensure excellent countermeasure performance against new-generation drones with strong anti-jamming capabilities.

Integrated Design

The whole unit consists of jamming unit, intelligent variable-speed gimbal, mounting bracket and other modules, featuring a compact structure and high integration. The power amplifier adopts an air duct cooling design to improve the operational reliability of the device.

Versatile Deployment Modes

It can be mounted on a fixed pole for long-term regional protection deployment; it can also be rapidly set up with a tripod or deployed in a vehicle-mounted manner, suitable for temporary low-altitude protection tasks such as important conferences and large-scale security events.



Radio Jammer & Spoofer NI-JG5000+

PRODUCT OVERVIEW

The integrated radio jammer and navigation spoofer primarily consists of a directional jamming module, a navigation spoofing module, a servo turntable, and other components. It integrates both radio suppression jamming and navigation spoofing into a single system.

The radio jamming unit allows for software-defined jamming sources, enabling customized configuration of jamming frequency points and bandwidths based on mainstream drone frequency bands. It supports independent or combined output of multiple jamming channels, causing drones to lose link signals, resulting in repelling or forced landing effects. The navigation spoofing unit is a radio system based on pseudo-satellite technology. It transmits strong satellite signals carrying false location information to the drones. By competing with in-orbit satellite signals, it deceives the drone's positioning system, preventing it from accurately determining its real location.



SPECIFICATIONS

Jamming Frequency Range	Jamming channel output can be set arbitrarily in the 300MHz-6GHz frequency band
Jamming Distance	≥5km (0.1W radiation source)
Jamming Beam Range	Horizontal 360° (by intelligent PTZ), pitch ≥70°
I/C Ratio	not less than 10:1
Spoofing Frequency	GPS: 1574.9~1575.9±5MHz、BDS: 1560.9~1562.8±5MHz、GLONASS: 1601.9~1602.2±5MHz
Spoofing Distance	≥5km
Power Consumption	≤1500W
Size	≤608mm × 496mm × 728mm
Weight	≤42KG

PRODUCT FEATURES

Software-Defined Jamming

Possesses 300MHZ-6GHz full-band jamming capability, covering most mainstream drone communication and navigation frequency bands on the market. The jamming equipment can configure important jamming parameters such as common drone frequencies, jamming scanning cycles, signal source types, and jamming strike duration in real time.

Strong Jamming Capability

The digital jamming sources support a variety of modulated signals, effectively countering various consumer-grade and unconventional drones. Dual-polarized antenna design is adopted for key frequency bands to ensure excellent countermeasures capability against new anti-jamming drones.

Integrated Spoofing Function

Supports multiple navigation spoofing signal outputs such as GPS, BDS, GLONASS, etc.. It can be linked with the radar system to realize drone spoofing function according to the target guidance information sent by the radar, and spoof the drone to a designated area.

Integrated Design

Consists of a radio jammer, directional spoofing and jamming equipment, an intelligent variable speed PTZ and mounting bracket, it features a compact structure and high integration.



Omnidirectional Jammer NI-JA3000

PRODUCT OVERVIEW

Omnidirectional Jammer interferes with the satellite navigation signal of the drone by transmitting electromagnetic waves or blocks the communication link between the drone and the remote control, resulting in the effect of forced landing or returning to the start position. It consists of multi-channel digital signal source, high-power broadband amplifier, broadband omni-directional antenna, power module, etc.. The device supports a variety of modulated signal output, and the broadband omnidirectional antenna realizes omnidirectional radiation of high-power jamming signal.



SPECIFICATIONS

Frequency Band	300MHz-6000Mhz
Interference Distance	≥3km (0.1W radiation source)
Transmit Power	around 100W per band
I/C Ratio	not less than 10:1
Interference Angle	360°
Interference Effective Time	≤3s
Power Supply	AC110~220V
Protection Level	IP65
Power Consumption	≤1600W
Power Supply Requirements	AC220V±10%, 50Hz
Size	≤470mm×400mm×170mm (without antenna)
Weight	≤20KG

PRODUCT FEATURES

Full-band jamming, customizable by software

It has full-band jamming capability from 300MHz to 6GHz, covering most of the UAV communication and navigation bands in the market. The jammer can be configured in real time with important jamming parameters such as common UAV frequencies, jamming scanning period, signal source style, and jamming strike duration.

Digital jamming source design

The digital jamming source supports a variety of modulation forms, supporting FSK, BPSK, QPSK, QAM, 16AQM, 64QAM, OFDM and other modulation signals, effectively dealing with all kinds of consumer-grade drones and unconventional drones.

High-power broadband amplifier design

High-power broadband amplifier adopts GaN broadband process for segmented amplifier design, and each segment amplifier power reaches 100W level, which ensures excellent countermeasure capability against new type of UAVs with strong anti-interference capability.

Active heat dissipation design

Fully consider the large power dissipation design, using active heat dissipation program to ensure high efficiency and reliability of the equipment.



Portable Frequency Jammer NI-JA1000P

PRODUCT OVERVIEW

The portable frequency jammer is an advanced device that combines high performance, portability, ease of use, and environmental adaptability. Using advanced signal processing technology and algorithms, it can effectively jamming with radio signals such as 2G/3G/4G/5G mobile communications, civilian remote control devices (remote controls, remote control cars, etc.), walkie-talkies, Wi-Fi, and Bluetooth.



PRODUCT FEATURES

High-efficiency Jamming Technology Based on Software Defined Radio (SDR)

The device adopts an integrated design integrating digital jamming source, analog jamming source and broadband power amplifier, with full-band jamming capability covering 20MHz-6GHz. It supports continuous upgrading of jamming waveforms, ensuring effective jamming of a single target or different types of targets simultaneously.

User-friendly Human-computer Interaction

The human-machine interface of the device is labeled in Chinese. Users can issue jamming commands, adjust device parameters, working status, query historical data, conduct version update and other system settings via the host panel or wired controller, with a rational interface layout and simple, easy operation.

Rapid Deployment & Easy Portability

The device features an integrated trolley case design with rollers. The antenna and battery can be detachably placed in the equipped backpack, allowing a single person to independently complete rapid deployment, retraction and portability of the device.

High Safety

The device is equipped with an alarm function that issues alarms for undervoltage, overvoltage, overload, abnormal temperature, abnormal transmit channel power and other abnormal conditions. It has a wired control function that enables remote operation, providing higher safety for operators.

SPECIFICATIONS

Jamming Signal Type	Mobile communication signal, walkie-talkie signal, remote initiator signal, drone remote control signal, remote control car signal, FPV drone signal
Jamming Frequency Range	Software-customizable jamming channels across the full frequency band of 20MHz~6000MHz
Jamming Angle	Horizontal: 360°, Elevation: -90°~90°
Mobile Communication Jamming Capability	≥100m for mobile communication terminals (outdoor conditions) ≥20m for mobile communication terminals (indoor partition wall conditions)
Walkie-talkie Jamming Capability	≥65m (open environment, walkie-talkie transmit power 35dBm, with squelch enabled)
Remote Initiator Jamming Capability	≥90m (open environment, remote initiator transmit power 35dBm)
Drone Jamming Capability	≥1000m for drones without anti-jamming capability; ≥200m for drones with anti-jamming capability
Remote Control Car Jamming Capability	≥90m (open environment)
Jamming Activation Time	≤5s
Power Consumption	1500W
Weight	≤40.8kg, including main unit weight ≤23kg



Spofer NI-G3000

PRODUCT OVERVIEW

Spofer NI-G3000 competes with on-orbit satellite signals by emulating and transmitting simulated satellite navigation signals. It utilizes its power advantage to cause the UAV navigation system to receive simulated navigation signals with false position information, causing UAVs entering the control area to become "lost" and unable to follow the intended trajectory, resulting in the effect of forced landing or returning to the start position, or preventing it from taking off.



SPECIFICATIONS

Signal Type	real-time generation of GPS-L1, GLONASS-L1, BEIDOU B1,Galile -E1
Spoofing Distance	≥3 km, distance adjustable
Orientation	360°
Spoofing Effect	dispersion, forced landing, flying according to the set trajectory
Effective Time of Spoofing	≤50W
Activation Time	<15s
Power Consumption	≤5min

PRODUCT FEATURES

Integrated design

Signal simulation generator, transceiver antenna, control board, power supply unit and other functional units are all integrated in one cavity to realize spoof control.

Strong applicability

The size of the control area can be adjusted, suitable for different low-altitude security application scenarios.

Good expandability

Multiple devices can be deployed in a distributed network to realize the unified platform command and control. It can also expand the range of defense and control area and enhance the effectiveness of low-altitude management.

Green and safe

The emission power is milliwatt level, in line with the relevant norms of national radio management. The detection and spoof linkage will also reduce the impact on the neighboring navigation system when the system is working.



Integrated Detection, Jamming & Spoofing Equipment NI-SAG2000

PRODUCT OVERVIEW

The device integrates the functions of drone signal detection and direction finding, omnidirectional suppression jamming, navigation spoofing and other functions. Upon detecting and identifying a drone, the device triggers an alarm and simultaneously performs automatic frequency selection to transmit jamming signals to jam the intruding drone. After jamming, the data is transmitted back to the software platform for effect feedback. The device operates in a circular manner all-weather and all-time, which can effectively ensure the protection, mission patrolling and important mission support of troops and key areas in multiple scenarios.



PRODUCT FEATURES

Adaptive Precision Jamming

The digital jamming source supports a variety of modulation modes. Upon detecting the key parameters of the target drone (such as model type, signal system, bandwidth, etc.), it can rapidly analyze and dynamically adjust the jamming mode. Adopting technologies like narrowband jamming and frequency-hopping tracking jamming, it cuts off the drone's signal links in a point-to-point and targeted manner, forcing the intruding drone to hover or return to base.

Diverse Deployment Modes

The device can be quickly mounted on vehicle roofs to realize communication and interconnection with vehicle-mounted command and control terminals via cables. It also supports fixed installation and portable tripod deployment, enabling 24/7 360° all-round real-time monitoring.

Integrated Detection, Jamming and Spoofing

The device integrates radio detection, suppression jamming and navigation spoofing, boasting full-band detection and jamming capability covering 300MHz-6GHz. It can effectively counter most consumer-grade drones, WIFI-based toy drones, DIY racing drones, and analog/digital image transmission systems, etc.

Long-Distance Detection with Direction Finding Support

It features a detection range of over 4km, high detection sensitivity and intelligent identification capability, and supports direction finding for drones.

SPECIFICATIONS

Detection Technical Specifications	
Detection Frequency Range	300MHz~6GHz
Detection Distance	≥4km (line-of-sight environment)
Detection Response Time	≤3s
Jamming Technical Specifications	
Key Jamming Frequency Ranges	0.3-2GHz、2-2.7GHz、2.4-5.5GHz、5-6GHz
Software Customizable Frequency Ranges	Full-band 300MHz~6GHz with software-customizable jamming channels
Jamming Rang	≥2km (line-of-sight environment, 0.1W radiation source)
I/C Ratio	Not less than 1:1
Spoofing Technical Specifications	
Supported Frequency Ranges	Common satellite navigation frequency bands including GPS L1 C/A, GLONASS G1, BDS B1I, GALILEO E1
Frequency Ranges	1575.42±1.023MHz、1561.098±2.046MHz、1602±4.17MHz、1575.42 ± 1.023MHz
Spoofing Distance	≥3km (line-of-sight environment)
Spoofing Response Time	≤3s
Power Consumption	Detection ≤80W, Peak Jamming ≤650W
Weight	≤11kg



Handheld Drone Locator NI-S2000H

PRODUCT OVERVIEW

The handheld drone detection and positioning device is mainly used for drone detection and early warning, precise positioning, trajectory tracking and operator positioning. The device supports 0.3GHz-6GHz full-band detection capabilities, can achieve fast frequency scanning in the full frequency range, suspected target energy detection, and has the ability to crack the protocol of branded drones, and can identify the branded drone's ID, location, altitude and other information. At the same time, the device also supports the image analysis capability of simulating image transmission drones. The device is suitable for major event security and guard low-altitude security tasks, important area patrols, and the accompanying protection of dignitaries.



SPECIFICATIONS

Detected signal type	Target identification alarm, area intrusion alarm, cross-border alarm, sensor linkage alarm upload
Detection Frequency Bands	300MHz~6GHz
Key Detection Frequency Bands	800MHz、900MHz、1.2GHz、1.4GHz、2.4GHz、5.2GHz、5.8GHz
Detection Range	≥2km (open environment), 0.5km-1km (suburban environment)
Screen display content	device self-check status, drone model, frequency band, location, serial number ID, trajectory, etc.
Weight	≤600g

PRODUCT FEATURES

Omnidirectional and directional detection capabilities

The device has omnidirectional and directional detection capabilities. The omnidirectional mode can detect medium-distance targets in all directions. The omnidirectional mode mainly realizes the rearward detection blind area during single-soldier combat and realizes the early warning function. The directional mode realizes long-distance detection and target direction finding functions in a small area.

Protocol cracking capability

It has the protocol cracking capability of DJI drones, and can identify the ID, location, altitude and other information of DJI drones; it has the protocol cracking capability of drones with WIFI RemoteID protocol, and can identify the MAC address and other information of drones. It has the image parsing capability of simulating image transmission drones.

Single-machine positioning

A single device can realize the location positioning and trajectory display of drone targets and pilots (remote controllers).

Portable and easy to operate

The device is light and easy to carry. It can work offline and respond flexibly. It can also be networked with multiple sets of NI-SJ1000M to meet the needs of various application scenarios.



Counter-Drone Jammer NI-SJ2000M

PRODUCT OVERVIEW

Portable drone control device is a software-defined handheld jammer. The device can output multiple jamming signals at the same time, effectively respond to all kinds of conventional/non-standard unauthorized flight UAV targets, which can make the UAV return, forced landing, and drive away effects. With small size, light weight and good maneuverability, the device is suitable for low-altitude protection needs such as important meetings, large-scale activities and daily patrols in fixed places.



SPECIFICATIONS

Signal Source Format	supports DDS swept source, also supports switching FSK, BPSK, QPSK, QAM, 16AQM, 64AQM, OFDM and other modulation source modes
Detection Frequency Band	300MHz~6GHz
Interference Bands	300MHz~6GHz
Detection Capability	2~3km
Interference Capability	2Km (0.1W radiation source)
Interference Effective Time	≤3s
Deception distance	1km
I/C Ratio	not less than 3:1

PRODUCT FEATURES

Programmable frequency band

Software-defined jammer, which can customize the jamming frequency and jamming bandwidth according to the mainstream UAV frequency band.

Highly integrated

Directional interference antenna design, strong directivity, long interference distance, effectively reducing the impact on the electromagnetic environment.

Platform management

Based on the information technology of the Internet of Things, the coordinate position and attitude of the equipment can be reported to the command and control platform (achieved by the optional mobile terminal), so that the situation can be seen in a panoramic view and the tasks can be coordinated.

Portable and easy to use

The product is made of lightweight materials, light in weight and easy to carry; one-button start-up design, easy to operate, ready to use.



Drone Defense Vehicle System

The Drone Defense Vehicle System is mainly composed of vehicle-mounted anti-drone system, vehicle-mounted command platform, vehicle-mounted chassis and other parts. It can be equipped with radar detection equipment/spectrum detection equipment, suppression and jamming equipment/spoofing and countermeasure equipment, and has the capability of detecting and fighting as a whole, which is applicable to the protection of VIPs and the patrol tasks of major activities. The chassis of the vehicle can be modified into a high-performance pickup truck/SUV/van with good maneuverability. It can be extended with a vehicle-mounted drone, which can perform tasks such as high-definition reconnaissance, high-altitude shouting, and flyer searching and positioning by carrying different task payloads.



PRODUCT FEATURES

Self-contained system

Integrating detection, identification, countermeasures and accusation, realizing full functions of discovery, disposal and retracement, and can be used as a complete system for independent combat.

Mobile command

Used as a mobile command vehicle for anti drone systems in large-scale missions.

Accompanying protection

The convoy is accompanied by protection to ensure low altitude safety, suitable for various application scenarios, and not affected by climate and site conditions.

Lightweight and maneuverable

Based on vehicle platform, it is suitable for rapid arrival at the scene in emergency situations, free of installation and easy to deploy.

Patrol and response

Patrol in important areas and sections of roads in large and medium-sized missions to respond to unexpected situations at any time.

Platform management

The front-end of the control vehicle, regional command platform, and monitoring center share data globally and collaborate with the whole network, which can enhance the level of protection.

SPECIFICATIONS

Standard Configuration	Anti-drone (RF detector, photoelectric tracking camera, jammer)
	Control vehicle (including modification)
	Vehicle-mounted command platform
	Detection 3km/5km/10km (Optional)
Control Range	Jamming 1km/3km/5km (Optional)
	Photoelectric tracking 1km/2km/3km (Optional)
	Handheld Drone Jammer
	Spoofers
Chassis Type	Supports modifications of pickup trucks, SUVs, vans, military vehicles, etc.
Extension	Vehicle-mounted drones and drone airports



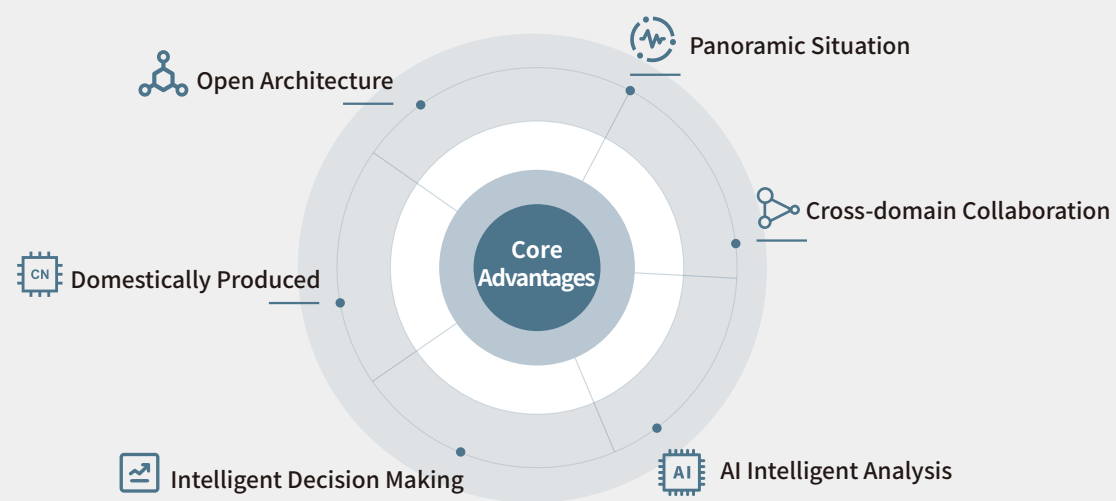


INTELLIGENT LOW-ALTITUDE DEFENSE PLATFORM (IRVMS)

Intelligent Perception Anti-Drone Integrated Management Platform is based on the advanced B/S IoT hardware and software architecture, adheres to the concept of "One Network, One Platform", integrates cutting-edge technologies and diverse device resources to build a full-process low-altitude safety management and control system and provide all-round reliable protection.

The platform builds a full-process functional link to realize precise detection, tracking, identification, early warning, disposal, analysis and decision support for drones, helping users grasp the low-altitude situation in real time and respond quickly to safety incidents.

The system integrates radar, RF detector, photoelectric and other sensors as well as spoofing and jamming equipment, which can detect and track intruding drones all-weather and in an all-round way. It achieves countermeasures through electronic jamming and navigation spoofing, improves the efficiency and accuracy of management and control, and consolidates the perception and defense network.



NETWORK TOPOLOGY DIAGRAM OF ALL-TERRAIN SECURITY INTELLIGENT SECURITY PLATFORM



Seamless Integrated Security

Unified security ecosystem, seamlessly integrating with CCTV systems to build a city-wide defense shield. Delivers holistic oversight of ground and low-altitude airspace.



Intelligent Threat Neutralization

Real-time drone identification & risk analysis, automated countermeasures per pre-set protocols. Ultra-fast response, fully unmanned security control.



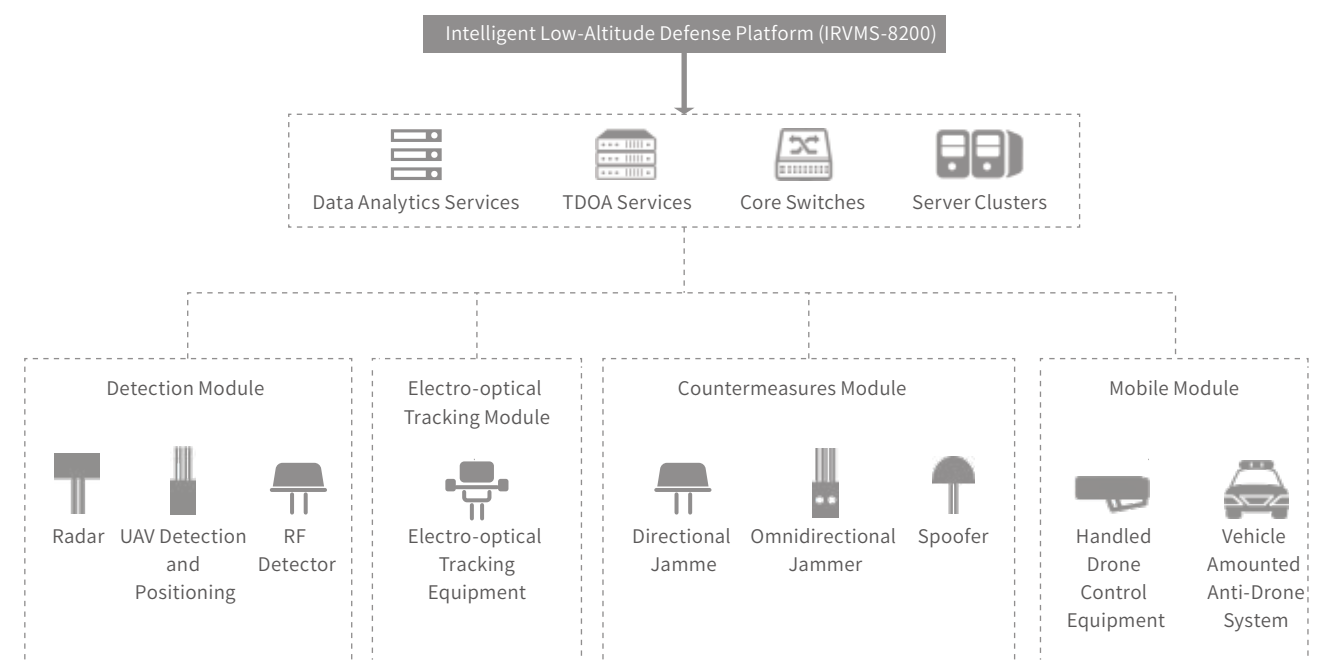
Hierarchical Management and Control

Multi-tiered monitoring (central to site level), seamless cross-regional & cross-level information sharing and collaborative management.



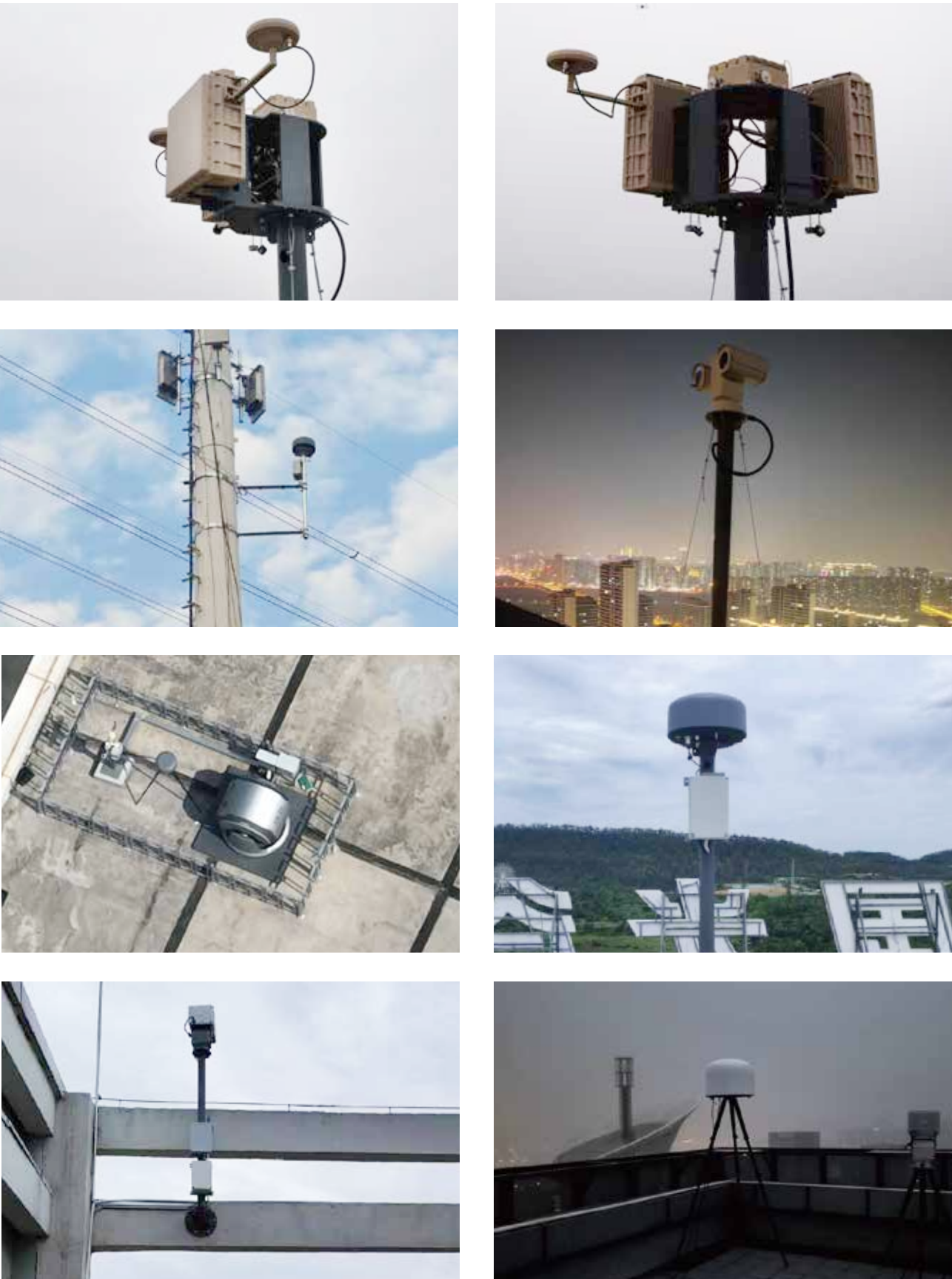
Scalability and Compatibility

Fully compatible with anti-drone devices, supports third-party access. Enables seamless tech upgrades and scalable expansion.

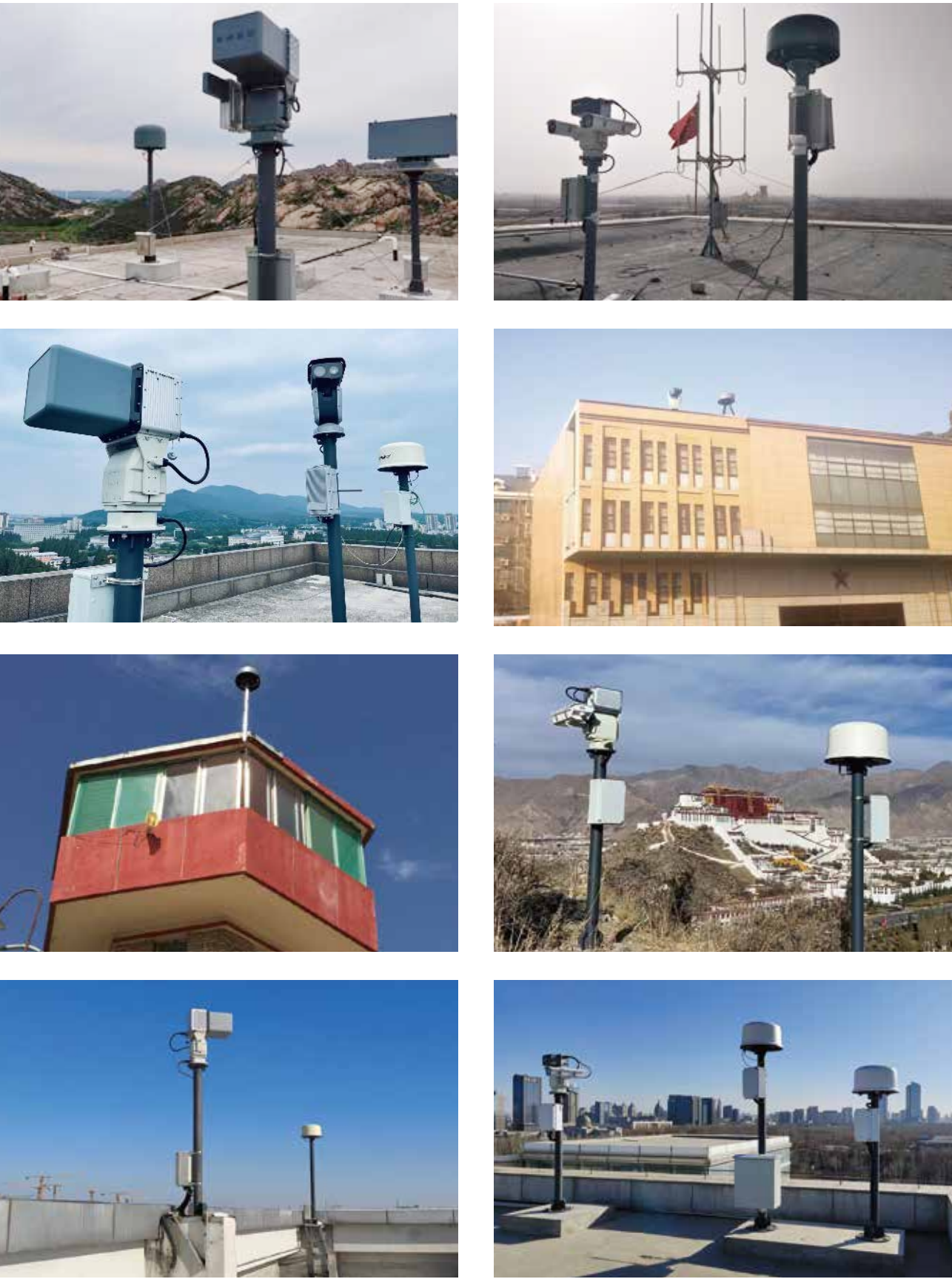


Successful Cases

Urban low-altitude drone regulatory case



Critical site protection fixed application case



Portable application case



Mobile platform drone defense application case

