

Drone Countermeasure Series

无人机反制系列

Product Introduction

产品介绍

01

Conventional Countermeasure Module Series

常规反制模块系列

20W--400~6000MHz

(Custom Frequency Band 定制频段)



- ◆ Voltage 电压:24V~32V
- ◆ Electric Current 电流:≤2A
- ◆ Size & Weight 尺寸&重量:117.3x28x17mm & 0.1Kg
- ◆ Output Interface 输出接口:SMA
- ◆ Other Features 其它功能:With enable function, built-in sweep source 带使能、内含扫频源、带天线保护

50W--100~6000MHz

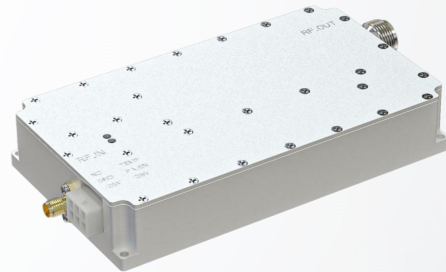
(Custom Frequency Band 定制频段)



- ◆ Voltage 电压:28V
- ◆ Electric Current 电流:≤4A
- ◆ Size & Weight 尺寸&重量:111*37*18mm & 0.16Kg
- ◆ Output Interface 输出接口:SMA
- ◆ Other Features 其它功能:With enable function, built-in sweep source 带使能、内含扫频源、带天线保护

100W/150W--100~6000MHz

(Custom Frequency Band 定制频段)



- ◆ Power 功率: 100W/150W
- ◆ Voltage 电压:28V
- ◆ Electric Current 电流:100w≤7.5A, 150W≤10A
- ◆ Size & Weight 尺寸&重量:140*80*25mm & 100w: 0.52kg 150w: 0.8kg
- ◆ Output Interface 输出接口:N头
- ◆ Other Features 其它功能:With enable function, built-in sweep source 带使能、内含扫频源、带天线保护

Functional Countermeasure Module Series

带功能反制模块系列

50W--100~6000MHz

(Custom Frequency Band定制频段)



- ◆ Voltage电压:24V~32V
- ◆ Electric Current电流:≤12A
- ◆ Size & Weight 尺寸&重量:115*63*22mm & 0.35kg
- ◆ Output Interface 输出接口:N头
- ◆ Other Features 其它功能:Equipped with current detection,temperature protection alarm and standing wave function. 配备电流检测、温度保护报警和驻波功能

100W--100~6000MHz

(Custom Frequency Band定制频段)



- ◆ Voltage电压:24V~32V
- ◆ Electric Current电流:≤12A
- ◆ Size & Weight 尺寸&重量:170*87*26.5mm & 0.8kg
- ◆ Output Interface 输出接口:N头
- ◆ Other Features 其它功能:Equipped with current detection,temperature protection alarm and standing wave function. 配备电流检测、温度保护报警和驻波功能

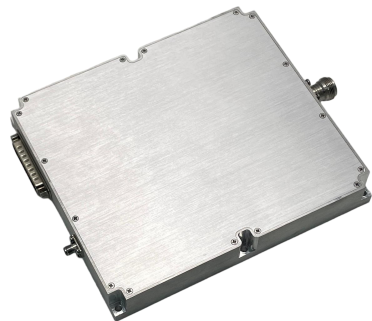
Functional Countermeasure Module Series

高频反制模块系列

50W 7-12GHz

7GHz~8GHz, 8GHz~10GHz, 10GHz~12GHz

(Custom Frequency Band定制频段)

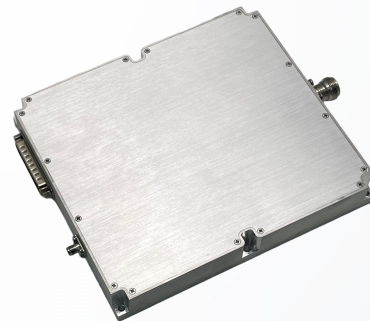


- ◆ Voltage电压:24V~28V
- ◆ Electric Current电流:≤12A
- ◆ Size & Weight 尺寸&重量:160*120*25mm & 2.5kg
- ◆ Output Interface 输出接口:SMA,N-K
- ◆ Other Features 其它功能:Equipped with standing wave function. 配备驻波功能

100W 7-12GHz

7GHz~8GHz, 8GHz~10GHz, 10GHz~12GHz

(Custom Frequency Band定制频段)



- ◆ Voltage电压:24V~28V
- ◆ Electric Current电流:≤22A
- ◆ Size & Weight 尺寸&重量:180*160*25mm & 3kg
- ◆ Output Interface 输出接口:SMA,N-K
- ◆ Other Features 其它功能:Equipped with standing wave function. 配备驻波功能

GJ006

Six-channel drone jamming gun-type device

六路无人机干扰枪式设备

The handheld jamming gun is a countermeasure device that blocks the communication between drone and remote controls or navigation systems by emitting electromagnetic jamming signals. It can be operated by a single soldier and is mainly applied in fields such as security, military, and public safety.

手持干扰枪是通过发射电磁干扰信号阻断无人机与遥控器或导航系统通信的反制设备，单兵即可操作，主要应用于安防、军事、公共安全等领域。



Feature / 功能特点

- ◆ Cover the mainstream drone frequency bands 覆盖主流无人机频段
- ◆ Signal jamming and blocking 信号干扰与阻断
- ◆ High performance and convenience 高性能与便捷性

Specification / 技术参数

- Jamming band (customizable) 干扰频段 (可定制) : 900M、1.2G、1.5G、2.4G、5.2G、5.8G
- Channel input optical power 单路功率: 30w
- Weight 重量: 3.3kg
- Battery 电池: 29.4V (6.8A)
- Size 尺寸(W×H×L): 640*75*265mm
- Antenna 天线: High gain directional antenna 高增益定向天线
- jamming distance 干扰距离: 500-1500m
- Endurance 续航能力: 30-45 min
- Display function 显示功能: with battery power display 带电池电量显示功能
- Battery 电池: Replaceable plug-in battery 可替换插拔式电池

GJ008

Eight-channel drone jamming gun-type device

八路无人机干扰枪式设备

The handheld jamming gun is a countermeasure device that blocks the communication between drone and remote controls or navigation systems by emitting electromagnetic jamming signals. It can be operated by a single soldier and is mainly applied in fields such as security, military, and public safety.

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Feature / 功能特点

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- ◆ Signal jamming and blocking 信号干扰与阻断
- ◆ High performance and convenience 高性能与便捷性

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）：433M, 900M, 1.2G, 1.4G, 1.5G, 2.4G, 5.2G, 5.8G
- Channel input optical power 单路功率: 30w
- Weight 重量: 3.6Kg
- Battery 电池 :29.4V (6.8A))
- Size 尺寸 (W×H×L): 640*75*265mm
- Antenna 天线: High gain directional antenna 高增益定向天线
- jamming distance 干扰距离: 500-1500m
- Endurance 续航能力: 30-45 min
- Display function 显示功能 : with battery power display 带电池电量显示功能
- Battery 电池: Replaceable plug-in battery 可替换插拔式电池

BJ008

Eight-channel individual jamming backpack

八频单兵反制式背包

The individual soldier anti-drone backpack is a portable anti-drone device specifically designed for individual soldiers or small-scale tactical deployments. It is mainly used to interfere with, block or deceive the communication links and navigation signals of drones.

单兵式反制背包是一种便携式反无人机设备，专为单兵或小规模战术部署设计，主要用于干扰、阻断或欺骗无人机的通信链路与导航信号。



Feature / 功能特点

- ◆ Cover the mainstream drone frequency bands 覆盖主流无人机频段
- ◆ Signal jamming and blocking 信号干扰与阻断
- ◆ Equipped with a handle for easy operation 配备手柄便于操作

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）：433MHz、900MHz、1.2GHz、1.4GHz、1.5GHz、2.4GHz、5.2GHz、5.8GHz
- Channel input optical power 单路功率：30w、50w
- Jamming distance 打击距离：500m-1500m
- Function 功能：Drive away and force land the drone 对无人机进行驱离和迫降
- Main Unit Dimension 主机尺寸：350*210*540mm
- weight 重量：15kg
- Battery 电池：29.4V 25A
- Battery life 续航能力：30-40 min 续航30-40分钟
- Direction of jamming 干扰方向：360-degree all-round 360°全方位
- Working temperature 工作温度：-25°C~70°C
- Storage temperature 储存温度：-30°C~+70°C

SJ006

Shield-type jammer

盾牌式干扰设备

The shield-type drone jamming device adopts a portable design and can be operated by a single soldier. It is equipped with functions such as intercepting, driving away, and forcing landings of unauthorized UAVs.

盾牌式无人机干扰设备，采用便携式设计，单兵即可操作，具备对黑飞无人机的拦截、驱离、迫降等功能。



Feature / 功能特点

- ◆ Countermeasure signals cover the frequency bands used by mainstream drones.
反制信号覆盖主流无人机频段
- ◆ Ultra-wideband high-gain integrated antenna 超宽带高增益一体化天线
- ◆ Intelligent temperature control and cooling 智能温控散热
- ◆ Portable integrated design 便携式一体化设计
- ◆ Employing a built-in battery design 采用内置电池设计

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）: 900M, 1.2G, 1.5G, 2.4G, 5.2G, 5.8G
- Channel input optical power 单路功率: 30w
- Weight 重量: 6.8Kg
- Battery 电池: 29.6V 3A
- Size(W×H×L) 尺寸（长×宽×高）: 440*300*140mm
- Jamming distance 干扰距离: 500-1500m
- Endurance: 续航能力 60-90 mins
- Antenna 天线: High gain directional antenna 高增益定向天线
- Display function 显示功能: with battery power display 带电池电量显示功能
- Battery 电池: Built-in battery 内置电池

JM1000

Chassis-type jammer

机箱式干扰设备

The fixed jamming aluminum chassis is a high-performance electromagnetic jamming device specifically designed for anti-drone missions. Its core function is to suppress and block the remote control, image transmission, and navigation links of drones through multi-frequency signals. At the same time, by combining the physical protection and electromagnetic shielding characteristics of the aluminum chassis, it can meet the operational requirements in complex and harsh environments.

固定式干扰铸铝机箱是一种专为反无人机任务设计的高性能电磁干扰设备，其核心功能是通过多频段信号压制阻断无人机的遥控、图传和导航链路，同时结合铸铝机箱的物理防护与电磁屏蔽特性，适应复杂恶劣环境下的作战需求。



Feature / 功能特点

- ◆ Countermeasure signals cover the frequency bands used by mainstream drones. 反制信号覆盖主流无人机频段
- ◆ High-intensity physical protection 高强度物理防护
- ◆ Expansion and Convenience 扩展与便捷性
- ◆ Multi-device Cooperation 多设备联动
- ◆ Unattended 无人值守

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）：433MHz、900MHz、1.2GHz、1.4GHz、1.5GHz、2.4GHz、5.2GHz、5.8GHz
- Channel input optical power 单路功率：50W-100w
- Function 功能: Drive away and force land the drone 对无人机进行驱离和迫降
- Jamming distance 打击距离：500m-2000m
- Main Unit Dimension 主机尺寸：515*400*330mm
- weight 重量：24kg
- Power supply mode 供电方式：AC110-220V

(Can be customized to make a compact all-in-one computer case 可定制做察打一体机箱)

BJ012

Backpack-mounted jammer

背包式干扰设备

The backpack-type drone jamming device is convenient for use in field operations. It can be carried for a long time and is equipped with a built-in battery. It has the functions of intercepting, driving away, and forcing landing of unauthorized drones. It uses ultra-high frequency sweep frequency technology to emit various wide-band signals, effectively suppressing the main drone control, video transmission, and positioning frequency bands currently available in the market, causing the drones to lose control and resulting in phenomena such as returning to base or forced landing.

背包式无人机干扰设备便于野外作战，可较长时间携带，内置电池，具备对黑飞无人机的拦截、驱离、迫降等功能。应用超高频扫频技术发射多种宽频信号，针对目前市场上主流无人机遥控、图传、定位频段进行有效压制，迫使无人机失去控制，导致其发生返航、迫降等效果。



Feature / 功能特点

- ◆ Countermeasure signals cover the frequency bands used by mainstream drones. 反制信号覆盖主流无人机频段
- ◆ Use omnidirectional antennas 采用全向天线
- ◆ Backpack-style design 背包式设计
- ◆ Equipped with a built-in battery and a battery level indicator 采用内置电池，带有电池电量显示

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）：300M、433M、800M、900M、1G、1.2G、1.4G、1.5G、2.4G、5.2G、5.6G、5.8G
- Channel input optical power 单路功率：50W-100w
- Weight 重量: 23.5Kg
- Size 尺寸 (W×H×L): 380*165*425mm
- Jamming distance 干扰距离: 500-2000m
- Endurance 续航能力: 50 mins
- Antenna 天线: High gain 360 omni-directional antenna 高增益360全向天线
- Display function 显示功能: with battery power display 带电池电量显示功能
- Battery 电池: replaceable battery 可替换插拔电池
- Equipped with a handle for easy operation 配备手柄，便于操作

CJ006

Small cannon jammer

小炮筒干扰设备

The long-range small cannon barrel equipment for drone adopts an integrated design of antenna and host, and uses a high-power omnidirectional antenna to achieve the interception, drive away and forced landing of unlicensed UAVs at a long distance.

无人机远距离小炮筒设备，采用天线主机一体化设计，采用大功率全向天线，实现远距离对黑飞无人机的拦截、驱离、迫降。



Feature / 功能特点

- ◆ Countermeasure signals cover the frequency bands used by mainstream drones.反制信号覆盖主流无人机频段
- ◆ Multi-channel segmented control多通道分段控制
- ◆ Form a 360-degree defense circle形成360°防御圈

Specification / 技术参数

- Jamming band (customizable) 干扰频段（可定制）：433M、900M、1.2G、1.5G、2.4G、5.8G
- Channel input optical power 单路功率：50W
- Weight 重量：10Kg
- Power supply 电源：AC220V
- Size 尺寸(W×H×L)：400*365*360mm
- Jamming distance 干扰距离：800-2000 m
- Antenna：360° omnidirectional barrel antenna

VJ008

Vehicle-mounted Jammer

车载式干扰设备

The semi-dome vehicle-mounted jammer is a highly integrated mobile anti-drone device for vehicles, embodying the "strike while on the move" tactical concept. It is specifically designed to protect high-value targets in motion and deal with sudden low-altitude threats.

半圆顶车载式干扰器一款高度集成的车载移动式反无人机设备，实现“边走边打”战术理念，专门用于保护移动中的高价值目标和应对突发性低空威胁。



Feature / 功能特点

- ◆ Countermeasure signals cover the frequency bands used by mainstream drones.反制信号覆盖主流无人机频段
- ◆ Adopting an integrated in-built design采用内置一体化设计
- ◆ Vehicle-mounted design 车载式设计

Specification / 技术参数

- Jamming band (customizable) 干扰频段 (可定制) : 433M、800M、900M、1.2G、1.5G、2.4G、5.2G、5.8G
- Channel input optical power 单路功率: 30w、50w
- Jamming distance 干扰距离 : 500-1500
- Weight 重量 : 11kg
- Power supply 电源 : DC28V
- Size 尺寸 (W×H×L) :450*450*380mm
- Antenna 天线 : 360° omnidirectional fiberglass antenna 360°全向玻璃钢天线

SJ118

Chassis-mounted drone spoofer

机箱式无人机诱骗设备

The box-type drone decoy device is specifically developed to address various security threats posed by unauthorized drones. It uses low-power radiation to emit and regenerate navigation satellite signals, intruding into the navigation system of the unauthorized drones. Through control software, it can control the direction of the unauthorized drones, thereby preventing them from using the navigation system for flight control.

机箱式无人机诱骗设备专门对黑飞无人机带来的各种安全威胁进行开发的，应用辐射低功率的发射再生导航卫星信号，侵入黑飞无人机的导航系统，利用控制软件，对黑飞无人机进行方向控制，从而迫使无人机无法通过导航系统进行飞行控制。



Feature / 功能特点

- ◆ Support the setting of no-fly zones function 支持设置禁飞区功能
- ◆ The equipment can emit simulated signals, enabling the unmanned aircraft to move in a straight line or in a circular path. 设备可发射模拟信号，使无人机直线运动或圆周运动
- ◆ Support the function of targeted disconnection 支持定向驱离功能
- ◆ Can be linked with radar or radio detection equipment 可与雷达或无线电探测设备联动
- ◆ Can be remotely turned on and off the signal transmission 可远程开启、关闭信号发射

Specification / 技术参数

- Working frequency 工作频率：
GPS/L1(1575.42MHz±1.023MHz)、BDS/B1(1561.098MHz±2.046MHz)、
GLONASS/G1(1602MHz±4MHz)、 GALILEO/E1(1575.42MHz±12.276MHz)
- Navigation Spoofing Feature 导航欺骗功能: Drone No-Fly Zone Projection (Forced Landing), Directional Displacement 无人机禁飞区投影（强制迫降），定向位移
- Defense distance 防御距离: directional 50km, omnidirectional 5-10km 定向50公里，全向5-10公里
- spoofer intervention time 欺骗干预时间: 2s
- Signal transmission power 信号传输功率: ≤120W(Adjustable)
- power consumption 功耗: ≤240W
- Weight 重量: ≤10kg
- Structural dimensions 结构尺寸: 400mm * 280mm * 112mm
- Power supply method 供电方式: 220V AC alternating current
- Data Interface 数据接口: Network Port 网口

SJ113

Spoofers / 定位诱骗

SJ113 can decoy drones that rely on satellite navigation and positioning systems for navigation, and achieve functions such as driving away, heading guidance, circular motion, forced landing, no-fly, and crashing. It can also achieve fixed-point forced landing of drones with the assistance of precise detection equipment.

SJ113可对依赖卫星导航定位系统进行定位的无人机进行导航诱骗，实现驱离、航向诱导、圆周运动、迫降、禁飞、坠机等功能，并能够在精确探测设备辅助下实现无人机定点迫降。



Feature / 功能特点

- ◆ Support global navigation satellite signal system and frequency simulation 支持全球导航卫星信号体制和频点模拟
- ◆ Power regulation function 功率调节功能
- ◆ High-precision 10MHz clock signal function, synchronized with satellite time 高精度10MHz 时钟信号功能，与卫星时间同步
- ◆ Highly integrated, portable design 高度集成、便携式设计

Specification / 技术参数

Working Satellite 工作卫星	BDS、GPS、GLONASS、Galileo、QZSS、IRNSS
Spoofing Distance 诱导距离	≥10Km
Spoofing Capability 诱导能力	Supports up to 13 frequencies simultaneously 同时支持13个频点
Power-on start-up time 上电启动时间	≤30s
Signal synchronization 信号同步	<1us
Weight 重量& Size 尺寸	≤10kg & 400*280* 112mm

SD120

Specificationtrum detection / 频谱侦测

Specifiationtrum detection uses technologies such as amplitude comparison and lateral direction finding and radio protocol analysis to achieve all-weather, blind-spot-free, long-distance automatic search and discovery, direction finding, tracking and positioning, blacklist and whitelist, and other functions for illegal intrusion signals and conventional radio signals.

频谱探测采用幅度比对与横向测向、无线电协议分析等技术，实现对非法入侵信号和常规无线电信号的全天候、无盲区、远距离自动搜索发现、测向、跟踪定位、黑白名单等功能。



Feature / 功能特点

- ◆ Accurate direction finding and rapid warning 精准测向与快速告警
- ◆ Drone positioning and pilot positioning 无人机定位和飞手定位
- ◆ Unique serial number to realize blacklist and whitelist function
唯一序列号实现黑白名单功能
- ◆ High detection and low false alarm 高检测低虚警

Specification / 技术参数

Working Frequency 工作频率	300MHz~6GHz
Technical System 技术体制	AOA(Angle of Arrival)
Detection Distance 探测距离	≥10Km
Size尺寸	450 * 450 * 380mm
Weight重量	≤13Kg
Detection Capability 探测能力	Classification recognition rate ≥ 90%, false alarm rate ≤ 5% 识别率≥ 90%，错误率≤ 5%
	simultaneous tracking of ≥ 15 drones 同时跟踪15架无人机

SD130

Specificationtrum detection / 频谱侦测

This device integrates functions such as unmanned aerial vehicle (UAV) detection, early warning, identification, direction-finding, and positioning. A single station can simultaneously direction-finding multiple targets, and a multi-station network can build a UAV detection and positioning system to achieve precise positioning and trajectory tracking of target drone.

该设备集无人机探测、预警、识别、测向、定位等功能于一体，单站可实现多目标同时测向，多站组网可构建无人机侦测定位系统，实现目标无人机的精准定位和轨迹跟踪。



Feature / 功能特点

- ◆ Full range of detection models 探测机型全
- ◆ The direction-finding distance is long 测向距离远
- ◆ The equipment provides round-the-clock, all-weather and all-round protection for the low-altitude safety of the core protected area
设备全天时,全天候，全方位守候核心保护区低空安全。

Specification / 技术参数

Working Frequency 工作频率	100MHz~6GHz
Direction-finding Frequency band 测向频段	400MHz~6GHz
Detection Distance 探测距离	2~5km
Direction-finding distance 测向距离	≥3km
尺寸Main Unit Size	φ*H: ≤ (750*800)±5mm
重量weight	≤20kg
The number of detection targets 探测目标数量	≥30 flight

LM065

Multi-function radar / 多功能雷达

The LM065 radar is used to determine the coordinates of launch positions for mortars, howitzers, and small-caliber rocket launchers, and to calibrate artillery attacks. It is suitable for searching and tracking moving targets such as ground soldiers and vehicles, and low-altitude small drones.

LMR065 雷达用于测定迫击炮、迫榴炮及小口径火箭炮等发射阵地坐标，校正火炮攻击，适用于地面单兵及车辆、低空小型无人机等活动目标的搜索与跟踪。



Feature / 功能特点

- ◆ Reconnaissance & fire correction of artillery position
炮位侦察校射
- ◆ Reconnaissance and fire correction of ground moving targets
地面活动目标侦察校射
- ◆ low-altitude reconnaissance 低空侦察
- ◆ Highly integrated, portable design 高度集成、便携式设计

Specification / 技术参数

Technical Mechanism 技术机制	Azimuth phase scan/Elevation frequency scan 方位相扫/俯仰频扫
Multi-target capability 多目标能力	Artillery position mode : 5 km more than 6 targets (Simultaneously) 炮位校射：5km以上同时不少于6个
	ground moving targets : ≥20 targets(Simultaneously) 地面活动目标：同时大于20台
Target Classification 目标分类	Individual soldiers, ground vehicles, aircraft 单兵、地面车辆、飞机
Classification Accuracy 正确率	≥85%

SR510

Spherical radar / 球形雷达

The spherical phased array radar project is based on digital TR components and arrayed large-capacity high-speed signal processing and data processing to form a fully digital radar. It overcomes the problem of planar phased array radars, such as beam width changes with scanning angle, reflectivity coefficient, and other data quality that is lower than that of traditional radars.

球面相控阵雷达项目基于数字TR组件和阵列化大容量高速信号处理与数据处理，构成全数字雷达，克服平面相控阵雷达存在的波束宽度随扫描角变化反射率系数等数据质量低于传统雷达。



Feature / 功能特点

- ◆ Innovative curved antenna design 天线创新的曲面设计
- ◆ Ability to work with multiple beams in parallel 多波束并行工作能力
- ◆ High-quality beam control capability 对波束高质量控制能力
- ◆ Highly integrated, Fixed-install design 高度集成，固定式设计

Specification / 技术参数

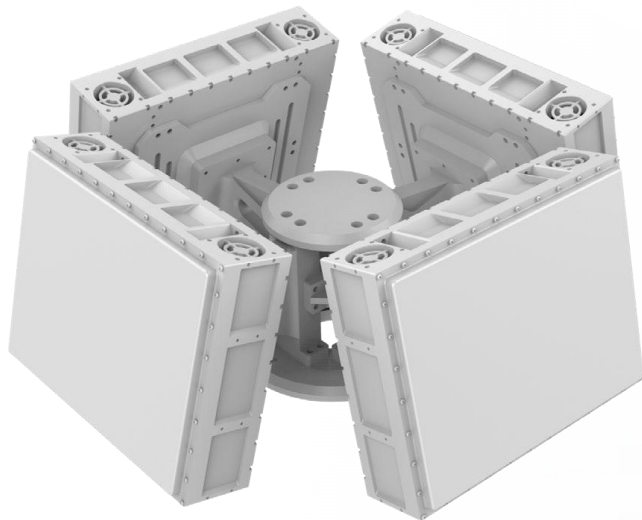
Working Frequency 工作频率	S band S 波段
Technical system 技术体制	Curved phased array radar adopts full electronic scanning mode 曲面相控阵雷达采用全电子扫描方式
Detection Distance 探测距离	$\geq 6.0\text{km}@search(RCS=0.01\text{m}^2)$ & $\geq 15\text{km}@search$ (Medium-Large UAV)
Speed Measurement Range 测速范围	1~100m/s
Number of targets tracked simultaneously 同时跟踪目标数量	≥ 100
Size尺寸&Weight重量	h*d: 1707*1530 & <100KG

PA450

Four-side phased array radar / 相控阵雷达

The PA450 radar can realize the TAS search and tracking function of UAVs, birds and other targets, and has high-precision real_time multi-target tracking and synchronous whole airspace search capabilities. It can be widely used in the security of airports, ports, oil fields, nuclear power plants and other important places.

PA450 型四面相控阵雷达可实现对无人机、飞鸟等目标的TAS搜索跟踪功能，具备高精度实时多目标跟踪和同步全空域搜索能力。可广泛应用于机场低空、港口、油田、核电站等要地安防。



Feature / 功能特点

- ◆ TAS search and high measurement accuracy TAS搜索与高测量精度
- ◆ Continuous and stable tracking 持续稳定跟踪
- ◆ High stability and reliable operation 高稳定性，可靠运行
- ◆ Highly integrated and portable design 高度集成、便携设计

Specification / 技术参数

Working Frequency 工作频率	Ku band Ku波段
Technical system 技术体制	Two-dimensional phased array three-coordinates 二维相控阵三坐标
Detection Distance 探测距离	$\geq 5.0\text{km}@search(RCS=0.01\text{m}^2)$ & $\geq 12\text{km}@search$ (Medium-Large UAV) $\geq 6.0\text{km}@tracking(RCS=0.01\text{m}^2)$ & $\geq 15\text{km}@tracking$ (Medium-Large UAV)
Speed Measurement Range 测速范围	1~80m/s
Data Rate 数据率	4s@search, 0.5s@track 4s@搜索, 0.5s@跟踪
Size尺寸&Weight重量	465×300×140mm & 25kg

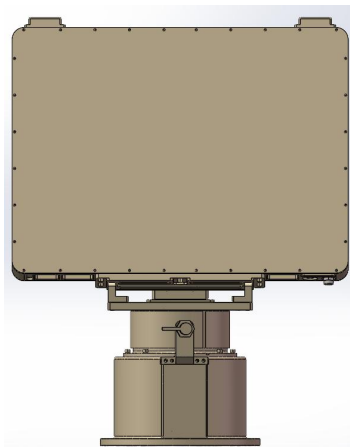
DBT10

Low-altitude surveillance radar /

低空监视雷达

BWR-T10 Low-Altitude Surveillance Radar, featuring X-band continuous wave + digital beamforming technology, delivers $360^{\circ} \times 45^{\circ}$ wide-area coverage with a 1-second ultra-fast refresh rate. It detects “low, slow, and small” targets such as drones, helicopters, bird flocks, and loitering munitions within 10 km, serving as the core all-weather low-altitude situational awareness sensor for airports, critical sites, border defense, and anti-drone operations.

BWR-T10型低空监视雷达，X波段连续波+数字波束形成， $360^{\circ} \times 45^{\circ}$ 广域覆盖，1秒极速刷新，可探测10 km内无人机、直升机、鸟群、巡飞弹等“低慢小”目标，为机场、要地、边防、反无提供全天候低空态势感知核心传感器。



Feature / 功能特点

- ◆ 1-second refresh rate, ultra-fast tracking of 150 m/s moving targets
1秒刷新，极速跟踪150 m/s机动目标;
- ◆ 200 batches of multi-target tracking, 50 m close-range blind spot-free
200批多目标，50 m近距离无盲区;
- ◆ Continuous wave low power consumption, single-person setup in 5 minutes;
连续波低功耗，单人5分钟架设;
- ◆ IP66 all-weather rating, stable operation down to -40°C
IP66全天候， -40°C 稳定运行.

Specification / 技术参数

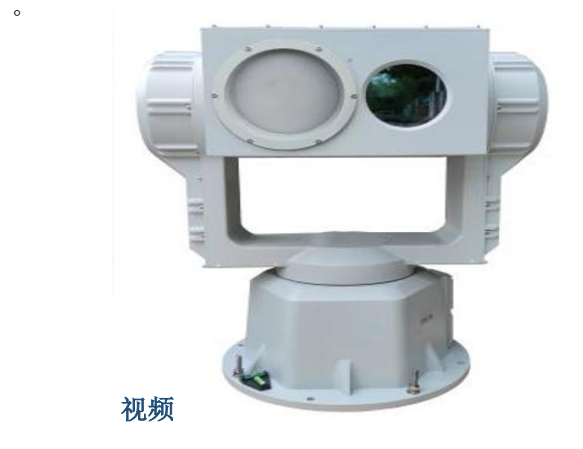
Working Frequency 工作频率	X band X波段
Distance Measurement Accuracy 测距精度	≤ 5 m RMS
Detection Distance 探测距离	≥ 10 km (Fixed-wing drone 固定翼无人机)
Directional Coverage 方位覆盖	360° 机械扫描 360° Mechanical Scanning
Simultaneous Tracking 同时跟踪	≥ 200 target batches ≥ 200 批目标
Total Power Consumption 整机功耗	260 W
Size尺寸&Weight重量	595*500*85mm&14kg

PT1

Photoelectric tracking / 光电跟踪

PT1 is an integrated photoelectric detection and tracking system designed for integrated land-air security. It employs multi-spectral detection modules including high-definition visible-light cameras and cooled thermal imagers. Applications include drone tracking, laser guidance illumination, bird deterrence systems, maritime nighttime surveillance, and coastal defense operations.

PT2为空地一体安全而设计的光电探测跟踪一体化系统，采用高清可见光摄像机、制冷热成像仪等多频谱探测模块，应用于无人机跟踪，激光导引照射，驱鸟系统，海域夜间防护，海防防务。



Feature / 功能特点

- ◆ Integrated visible light, infrared, and thermal imaging 集成可见光、红外、热成像
- ◆ High control accuracy 控制精度高
- ◆ Suitable for complex environments 适用于复杂环境
- ◆ Highly integrated, fixed-install design 高度集成、固定式设计

Specification / 技术参数

Fuction 功能	Identification、Detection、Tacking 识别、探测、跟踪
Distance 距离	Tracking range: 5KM for visible light 4KM for thermal imaging 跟踪距离：可见光5KM 热像4KM
	Recognition Range: Visible Light 4KM Thermal Imaging 3KM 识别距离：可见光4KM 热像3KM
imaging 成像	Visible light 800mm + uncooled thermal imaging 500mm zoom800mm+制冷热像500mm变焦
Technology 技术	The optoelectronic device incorporates its own recognition and tracking algorithms. 光电自身带有识别、跟踪算法
Weight重量	Approx. 95 kg

PT2

Photoelectric tracking / 光电跟踪

PT2 is an integrated photoelectric detection and tracking system designed for integrated land-air security. It employs multi-spectral detection modules including high-definition visible-light cameras and uncooled thermal imagers. Applications include drone tracking, laser guidance illumination, bird deterrence systems, maritime nighttime surveillance, and coastal defense operations.

PT2为空地一体安全而设计的光电探测跟踪一体化系统，采用高清可见光摄像机、非制冷热成像仪等多频谱探测模块，应用于无人机跟踪，激光引导照射，驱鸟系统，海域夜间防护，海防防务。



Feature / 功能特点

- ◆ Integrated visible light, infrared, and thermal imaging 集成可见光、红外、热成像
- ◆ High control accuracy 控制精度高
- ◆ Suitable for complex environments 适用于复杂环境
- ◆ Highly integrated, fixed-install design 高度集成、固定式设计

Specification / 技术参数

Fuction 功能	Identification、Detection、Tacking 识别、探测、跟踪
Distance 距离	Tracking range: 5KM for visible light 2KM for thermal imaging 跟踪距离：可见光5KM 热像2KM
	Recognition Range: Visible Light 4KM Thermal Imaging 1.5KM 识别距离：可见光4KM 热像1.5KM
imaging 成像	Visible light 800mm + uncooled thermal imaging 230mm zoom800mm+非制冷热像230mm变焦
Technology 技术	The optoelectronic device incorporates its own recognition and tracking algorithms. 光电自身带有识别、跟踪算法
Weight重量	Approx. 95 kg

PT3

Photoelectric Tracking / 光电跟踪

PT3 is an integrated photoelectric detection and tracking system designed for air-to-ground security. It uses multi-Specificationtral detection modules such as high-definition visible light cameras and uncooled thermal imagers. It is used for low-altitude security prevention in key locations such as military bases, airports, prisons, nuclear, biological and chemical industries, border and coastal defense, and oil fields.

PT1是为空地一体安全而设计的光电探测跟踪一体化系统，采用高清可见光摄像机、非制冷热成像仪等多频谱探测模块，应用于军事基地、机场、监狱、核生化工业、边海防、油田等重点场所的低空安全防范。



Feature / 功能特点

- ◆ Integrated visible light, infrared, and Specificationtrum imaging 集成可见光、红外、频谱成像
- ◆ High control accuracy 控制精度高
- ◆ Suitable for complex environments 适用于复杂环境
- ◆ Highly integrated, fixed-install design 高度集成、固定式设计

Specification / 技术参数

Fuction 功能	Identification、Detection、Tacking 识别、探测、跟踪
Day/Night detection、 tracking、 Identification、 performance 白天/夜晚探测和跟踪 能力	Detection Distance: Day: 2km, Night: 1km 探测距离: 白天: 2km, 夜晚: 1km
	Tracking Distance: Day: 2km, Night: 1km 跟踪距离: 白天: 2km, 夜晚: 1km
	Identification Distance:Day:1km, Night:500m 识别距离: 白天: 1km, 夜晚: 500m
Rotation speed 回转速度	100° /s

System Solution

系统方案

02

Drone Defense Vehicle System / 无人机防御车系统

The drone defense vehicle integrates electro-optical systems, radar system, passive spectrum analysis, radio jamming, and navigation spoofing equipment into a command and control vehicle. By developing an integrated management platform, it achieves full-process UAV control capabilities encompassing detection, reconnaissance, control, jamming, and GPS spoofing. Its full-band jamming capabilities can disrupt illegal radio-controlled explosions and sever radio communication/leakage channels. Deployment is flexible, supporting both fixed installations and vehicle-mounted configurations.

无人机防御车集成光电系统、无源频谱、雷达系统、无线电干扰、导航诱骗等设备于调度指挥车，通过开发一体化综合管控平台，实现对无人机的探、侦、控、扰、诱处置的全流程无人机管控能力，全频段的干扰频段可阻断不法分子利用无线电遥控爆炸，切断其通过无线电通讯/泄密。部署方式灵活，可作固定式部署，也可以作车载式部署。



electro-optical
光电



Spectrum
detection
频谱探测

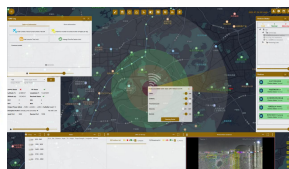


Radar
雷达

detection
探、侦



Integrated Comprehensive
Management Platform
一体化综合管控平台



control
控



Omnidirectional
jamming
全向干扰

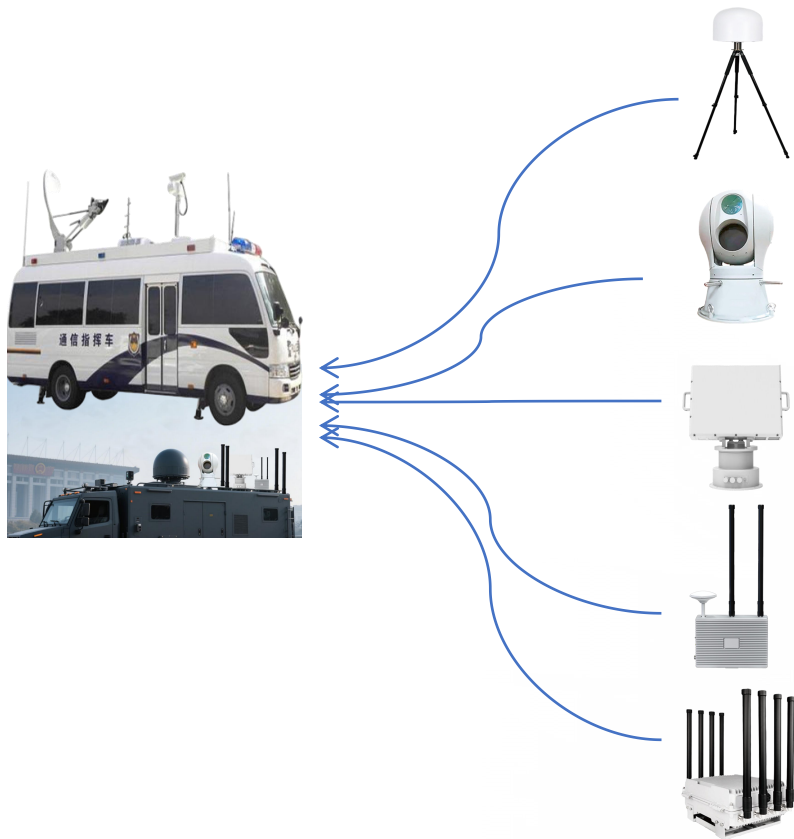


Navigation
spoofing
导航诱骗

jamming spoofing
扰、诱

Drone Defense Vehicle System - System Design Approach and Framework

无人机防御车系统-系统设计思路及框架



System Architecture 系统架构

Integrated Management Team
综合管理层



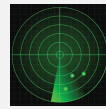
Multi-tiered alerts, multi-layered defenses
Precision control, closed-loop management
多级警戒, 多层防御
精准管控, 闭环管理

Intelligence Analysis Layer
情报分析层



Cross-guidance confirmation, situation assessment
交叉引导确认, 态势评估

Data Integration Layer
数据融合层



Multi-source Data Fusion and Integration
多源数据拼接融合

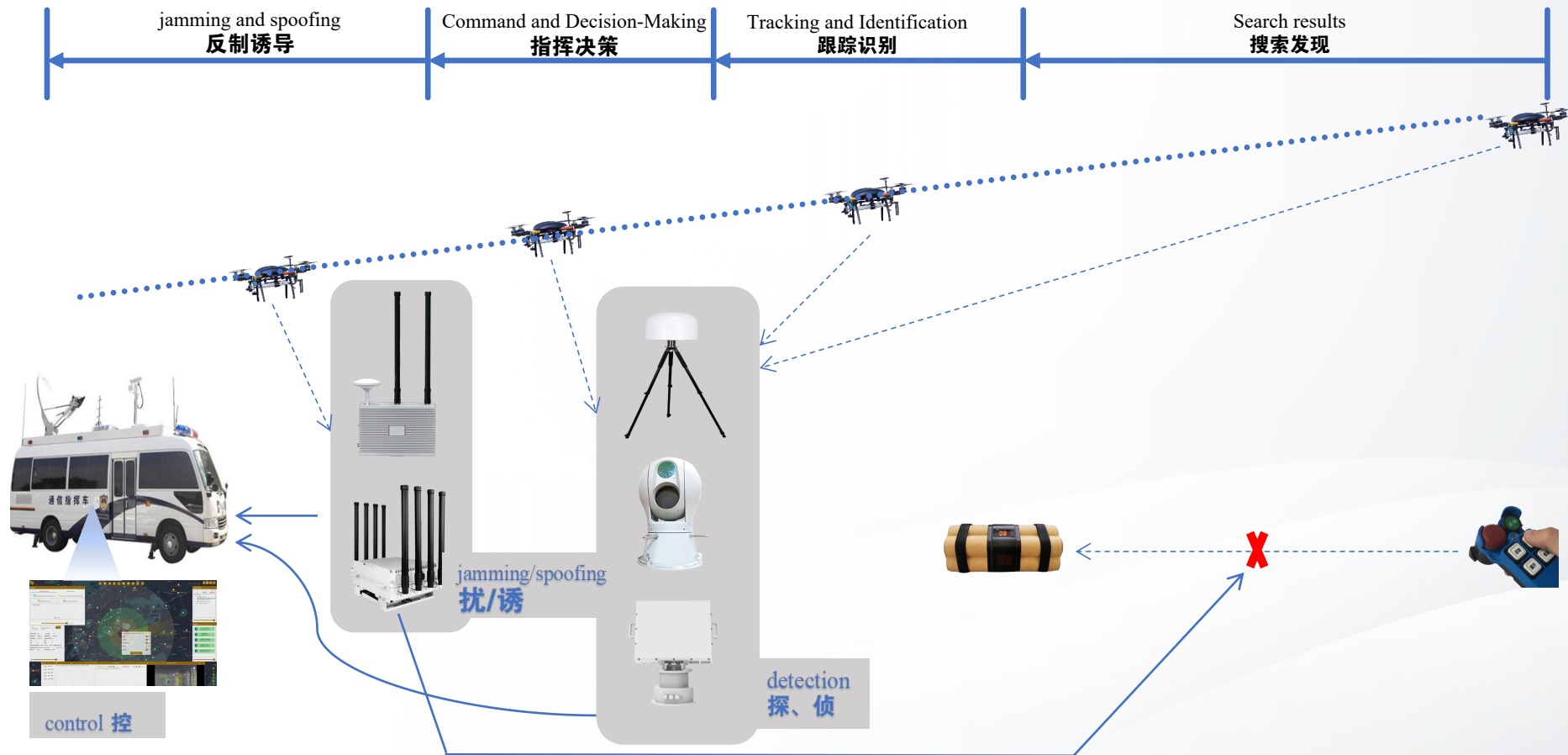
Device Interface Layer
设备接口层



Fixed and portable systems working in tandem
固定式与便携式协同作战

Drone Defense Vehicle System - Workflow

无人机防御车系统-工作流程



Drone Defense Vehicle System - System Functions

无人机防御车系统-系统功能



- ◇ Perimeter surveillance cameras are installed around the vehicle. When a person or object approaches, the control system will trigger an alert.
车载四周布置有人防摄像头，当有人或者物体靠近，管控系统会进行预警；
- ◇ Detect, identify, provide early warning for, track, jam, and neutralize unauthorized drones
对黑飞无人机进行侦测，识别，预警，跟踪，干扰，打击；
- ◇ Prevent unauthorized individuals from approaching, disrupt their radio-controlled bombs, and cut off terrorists' intelligence eavesdropping.
阻止非法分子靠近，阻断其无线电遥控炸弹，切断恐怖分子的情报窃听。

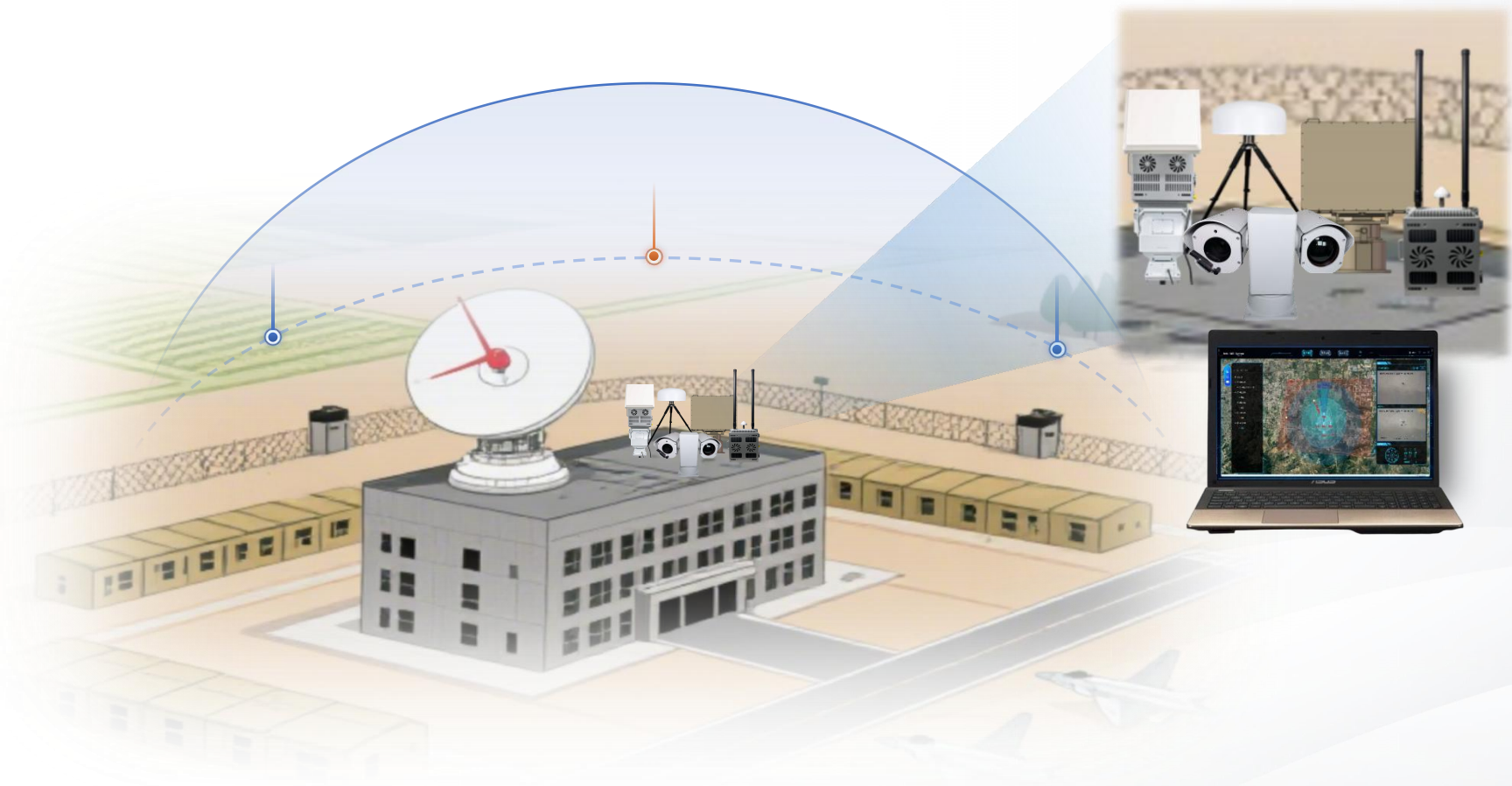
Fixed Defense System / 固定式防御系统

The integrated architecture of the fixed defense system for drone organically combines subsystems such as radar, electro-optical, spectrum detection, radio interference, and GPS guidance. The key lies in achieving information sharing, collaborative operation and seamless integration among all subsystems to ensure the maximization of overall efficiency.

无人机固定式防御系统的集成架构有机融合了雷达、电光、频谱探测、无线电干扰及GPS制导等子系统。其关键在于实现所有子系统间的信息共享、协同运作与无缝集成，以确保整体效能最大化。

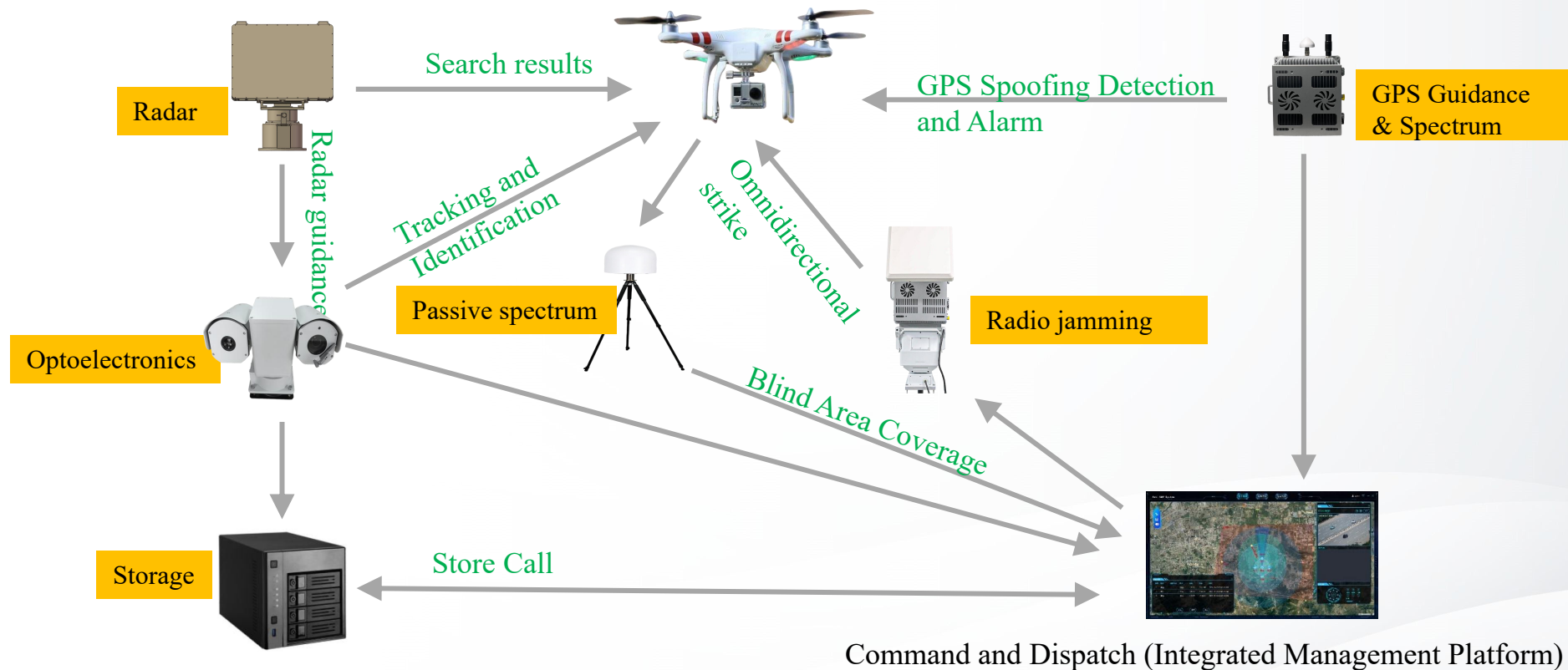
This architecture diagram shows the process and data flow of the system. Radar is responsible for long-distance detection, while electro-optical equipment performs short-range identification and spectrum precise identification confirmation to fill blind spots. Based on this, the command system formulates combat strategies, activates interference equipment and GPS spoofing countermeasures to carry out interception, forming a complete defense closed loop.

该架构图展示了系统的流程与数据流。雷达负责远距离探测，而电光设备则执行近距离识别、频谱进行精准识别确认补充盲区，指挥系统据此制定作战策略，启动干扰设备和GPS诱骗对抗装置实施拦截，形成完整的防御闭环。



Fixed Defense System / 固定式防御系统

系统架构图



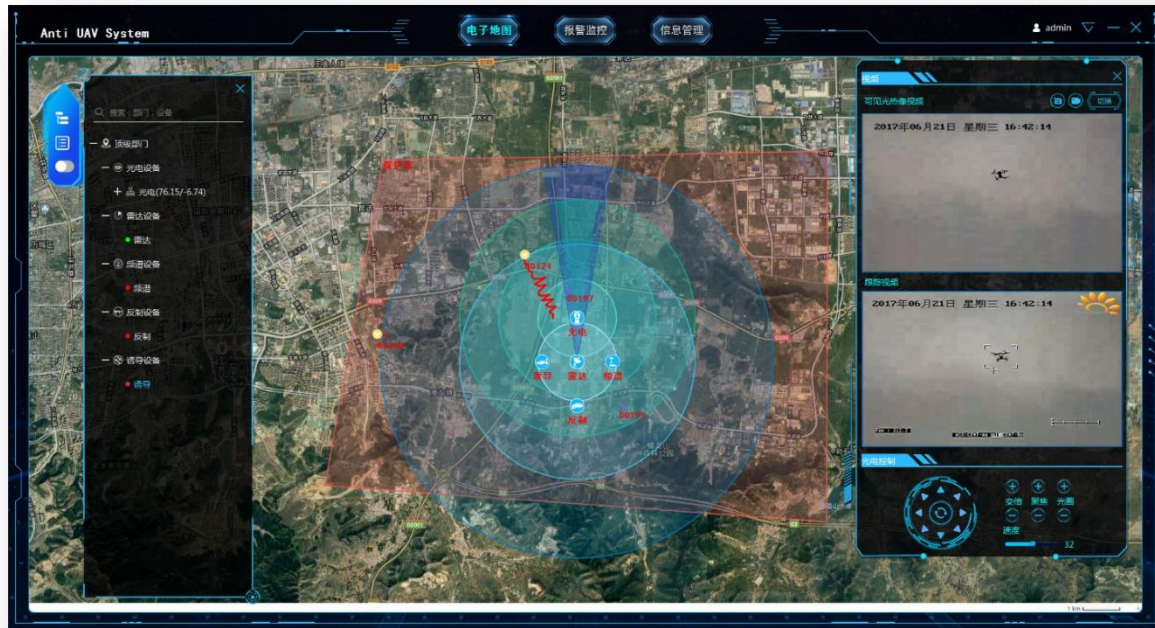
Fixed Defense System Advantages

固定式防御系统优势

Advantage : Software Platform Integration

优势：软件平台集成

- ◆ Equipment Management
设备管理
- ◆ Flight path display
航迹显示
- ◆ Video Preview
视频预览
- ◆ Status Monitoring
状态监视
- ◆ Radar Interlock
雷达联动
- ◆ Multi-level control
多级管控
- ◆ Electronic fence
电子围栏

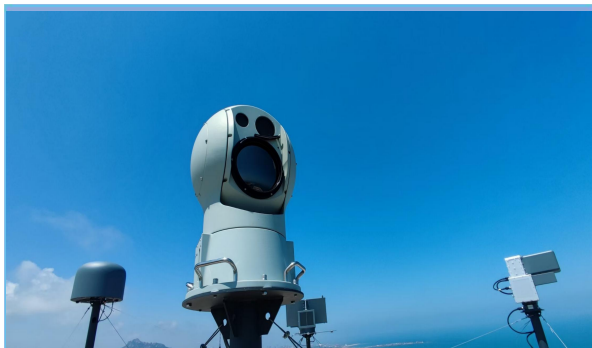


Integrated, Unified Management Platform

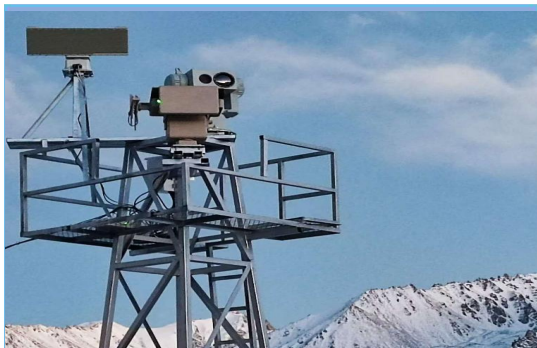
一体化、集成化综合管控平台

- ◆ Information Fusion
信息融合
- ◆ Intelligent Analysis
智能分析
- ◆ Command and Dispatch
指挥调度
- ◆ Electronic Map
电子地图
- ◆ Alarm linkage
告警联动
- ◆ Information Sharing
信息共享
- ◆ User Management
用户管理
- ◆ Data Management
数据管理

Application Fields / 应用领域



Critical Base Defense 基地防御



Border Defense 边境防御



Major Events and Competitions
大型活动赛事



Airport Defense 机场防御



Hydroelectric Power Station Defense
水电站防御



Marine Defense 海防防务

THANKS



For more information about our products, please contact us. We offer customized solutions.
想了解更多产品信息，请联系我们，可接受制作定制化方案。