



Drone Defense System

Product Catalog



Fixed Drone Detection and Jamming System

Model: D8375F

The Fixed-Type Drone Detection and Jamming All-in-One System is a comprehensive system that integrates multiple technologies and functions for drone detection and jamming. It operates with multiple means in a coordinated manner and utilizes advanced Cognitive Radio Protocol Cracking technology (CRPC), radio reverse engineering, and security analysis. The system offers various functions such as 24-hour detection, identification, early warning, direction finding, and selective jamming.

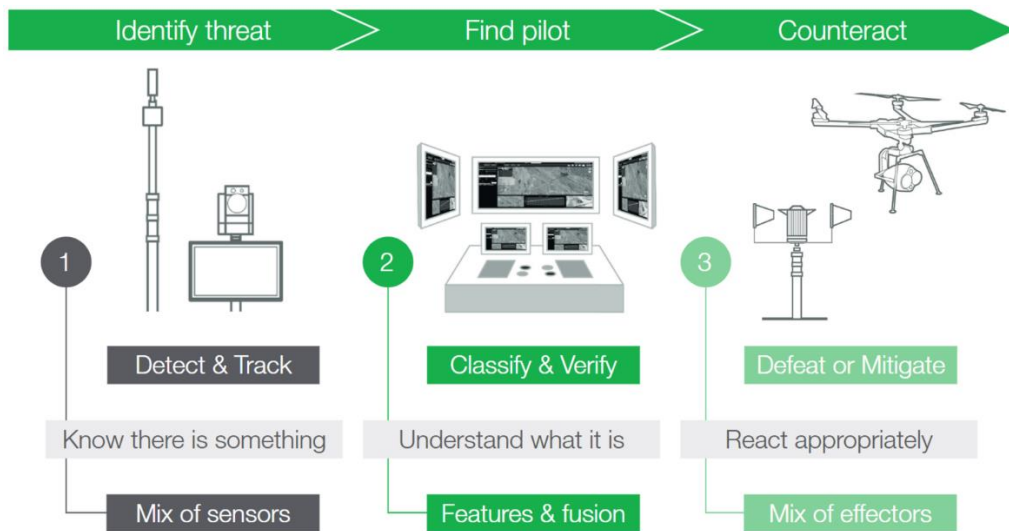
Product Features:

- Precise Identification: Detect and identify S/N ID, orientation, distance, latitude and longitude, flight altitude, and speed of the drone.
- Defense and Jamming: Combined narrowband low-power precision jamming and wideband high-power interference.
- Black and White List: One-click to mark the black and white list, keep the white-listed drones free from interference.
- Unattended Function: One-click switch to unattended, automatically defend against drone intrusion for 7/24hours.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: D8375F | | Fixed Drone Detection and Jamming System | |
|----------------------------|---|--|--|
| Detection Bands | 30MHz~6GHz | | |
| Main Bands | 400MHz, 800MHz, 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Detection Radius | 0~8km+ (Differences are present due to varying environments and types of drones.) | | |
| Direction Finding Accuracy | (RMS) 3° (hovering); 10° (moving) | | |
| Detection Quantity | >40 Drones (Simultaneous) | | |
| Detection Range | 360° full airspace | | |
| Jamming Bands | 900MHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Jamming Radius | 0~3km+ (Differences are present due to varying environments and types of drones.) | | |
| Positioning Method | Message-level analysis and positioning /multi-station network positioning | | |
| Positioning Accuracy | ≤10m (RMS) | | |
| Interference Principle | Radio suppression | | |
| Extended Customization | Support optional navigation spoofing function | | |
| Operating Temperature | -40°C~70°C | | |
| Protection Level | IP66 | | |

Technical specification is subject to change without prior notice.

Handheld Drone Detection and Jamming System

Model: D3224H

The Handheld Drone Detection and Jamming All-in-One Equipment is compact, lightweight, easy to carry, and operate. It can be activated with just one click at any time and can conduct comprehensive detection and jamming operations for drones. This results in the target drone losing control and GNSS signal, preventing it from flying normally. This equipment is designed to compel unauthorized drones to either land or fly away.

Product Features

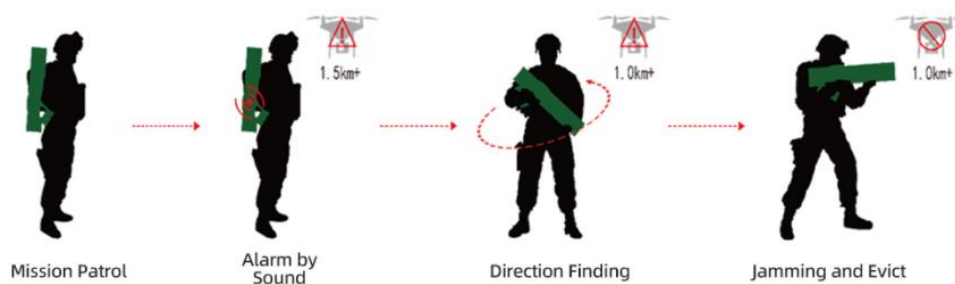
- Comprehensive Features: integrated design with detection and jamming; early warning; direction finding; excellent jamming functionality.
- Self-contained System: multiple task operating functions; support to work with the drone defense system.
- Flexible and Convenient: handheld designed; easy to carry and simple to use.
- Ergonomical Design: fulfil the collaborative demands of running, lifting, standing, safety, and comfort.



Application Scenario

- Public safety, prisons, critical infrastructure, government agencies,
- Military operations, law enforcement, border patrol, and VIP/private property protection.

Operation Process





Technical Specifications:

| P/N: D3224H | | Handheld Drone Detection and Jamming System |
|----------------------------|---|---|
| Detection Bands | 2.4GHz, 5.8GHz (Customizable) | |
| Detection Distance | 0~3km+ (Differences are present due to varying environments and types of drones.) | |
| Direction Finding Accuracy | (RMS) 10° | |
| Jamming Bands | 900MHz, 1.5GHz, 2.4GHz, 5.8GHz (Customizable) | |
| Jamming Distance | 0~2km+ (Differences are present due to varying environments and types of drones.) | |
| Power Supply | Lithium battery that can be replaced | |
| Endurance | >6h (Monitor working conditions) | |
| Extended Function | Extra display screen can be chosen for real-time situational display | |
| Weight | <6kg (Battery included) | |

Technical specification is subject to change without prior notice.



Vehicle-mounted Drone Detection and Jamming System

Model: D5375V

The Vehicle-mounted Detection and Jamming System utilizes a mobile-type approach to passively detect drones in the protected area. It can distinguish between friendly and hostile drones, accurately identify them, and effectively defend against them. The system consists of a radio detection and jamming integrated system that is carried by vehicles, making it suitable for various complex topographies and climate environments. It offers flexible deployment, real-time response, and rapid defense capabilities, providing a mobile low-altitude security solution.

Product Features

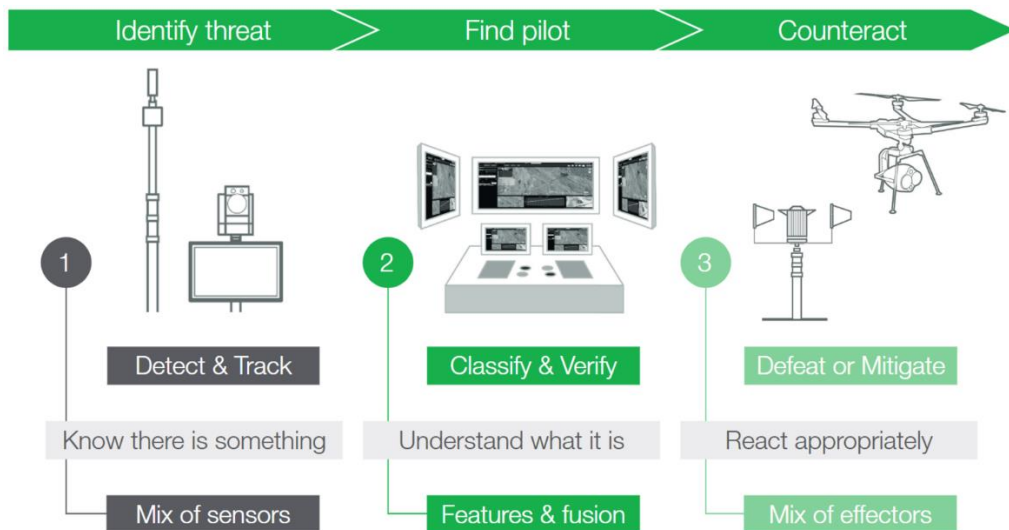
- Lightweight and Flexible: vehicle-based platform; suitable for all kinds of mobile accompanying protection.
- Integrated System: combined with detection, identification, jamming, command and control, can be used as a complete system for independent use.
- Unattended Function: one-click switch to unattended, automatically defend against drone intrusion for 7/24hours.



Application Scenario

- Public safety, prisons, critical infrastructure, government agencies,
- Military operations, law enforcement, border patrol, and VIP/private property protection.

System Topology





Technical Specifications:

| P/N: D5375V | | Vehicle-mounted Drone Detection and Jamming System | |
|----------------------------|---|--|--|
| Detection Bands | 30MHz~6GHz | | |
| Main Bands | 400MHz, 800MHz, 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Detection Radius | 0~5km+ (Differences are present due to varying environments and types of drones.) | | |
| Direction Finding Accuracy | (RMS) 3° (hovering); 10° (moving) | | |
| Dynamic Detection | Movement speed >60km/h | | |
| Jamming Bands | 900MHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Jamming Radius | 0~3km+ (Differences are present due to varying environments and types of drones.) | | |
| Extended Customization | Support optional navigation spoofing function | | |
| Operating Temperature | -40°C~70°C | | |
| Protection Level | IP66 | | |

Technical specification is subject to change without prior notice.



Portable Drone Detection and Jamming System

Model: D3275P

The Portable Drone Detection and Jamming All-in-One Equipment is designed to be easily movable and quick to use. It can be deployed at any time and can conduct comprehensive detection and jamming operations on drones. This disrupts the target drone's flight control, preventing it from flying normally, ultimately compelling unauthorized drones to either land or fly away.

Product Features

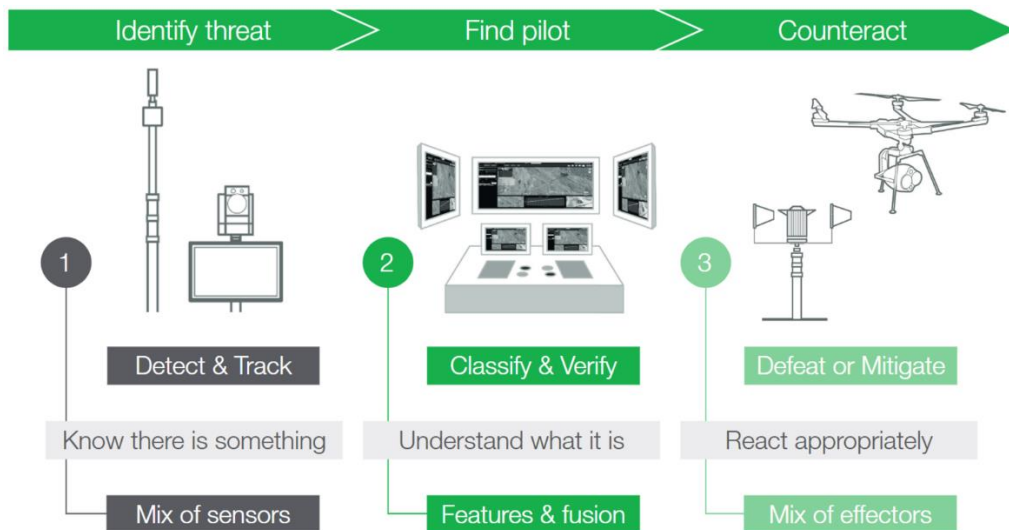
- High Integration: Detection, Jamming Highly integrated with multiple functions.
- Excellent Portability: The design of wheeled trolley case makes easy to transport and deploy.
- Cost Effective: User-friendly operation; Suitable for both mobile and fixed scenarios

Application Scenario

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.



System Topology





Technical Specifications:

| P/N: D3275P | | Portable Drone Detection and Jamming System | |
|----------------------------|---|---|--|
| Detection Bands | 30MHz~6GHz | | |
| Main Bands | 400MHz, 800MHz, 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Detection Radius | 0~3km+ (Differences are present due to varying environments and types of drones.) | | |
| Direction Finding Accuracy | (RMS) 3° (hovering); 10° (moving) | | |
| Detection Range | 360° full airspace | | |
| Jamming Bands | 900MHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Jamming Radius | 0~2km+ (Differences are present due to varying environments and types of drones.) | | |
| Weight | ≤ 23kg | | |
| Operating Temperature | -40°C~60°C | | |

Technical specification is subject to change without prior notice.



Fixed Drone Detection and Spoofing System

Model: DX172S

The fixed-type detection and spoofing integrated equipment offers comprehensive functions and exceptional performance. With a professional-level waterproof and dustproof design, it can operate reliably and continuously in outdoor harsh environments. This equipment is suitable for a wide range of applications including public safety, correctional facilities, critical infrastructure, government agencies, military operations, law enforcement, border patrol, and VIP/private property protection.

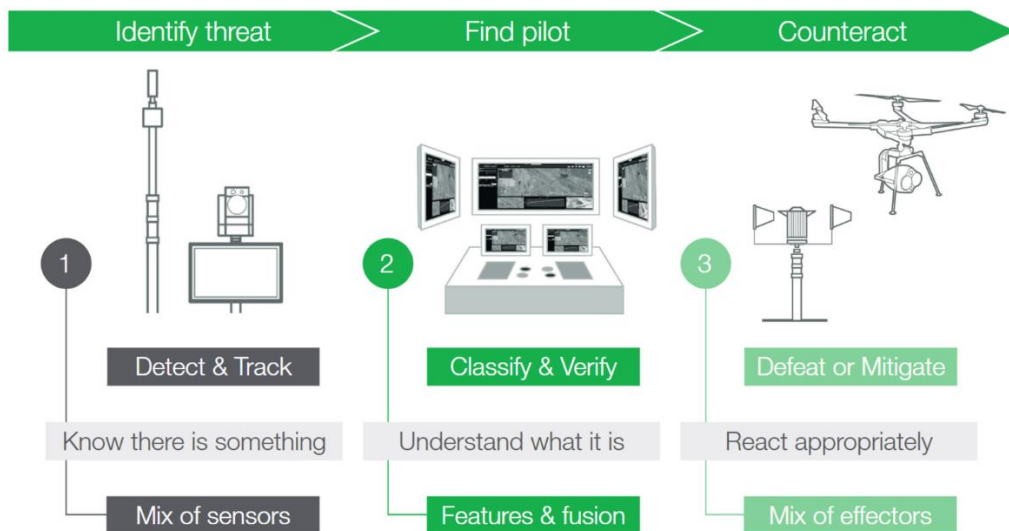
Product Features:

- Precise Identification: It can accurately distinguish between drones of the same brand and model at a long range, as well as identify the electronic fingerprint of each drone.
- Defense and Spoofing: Upon detecting an unauthorized drone, it emits signals to perform actions such as spoofing, forced landing, and driving away to protect the safety of the area.
- Unattended Function: One-click switch to unattended, automatically defend against drone intrusion for 7/24hours.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: DX172S | | Fixed Drone Detection and Spoofing System | |
|----------------------------|--|---|--|
| Detection Bands | 30MHz~6GHz | | |
| Main Bands | 400MHz, 800MHz, 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Detection Radius | 0~10km+ (Differences are present due to varying environments and types of drones.) | | |
| Direction Finding Accuracy | (RMS) 3° (hovering); 10° (moving) | | |
| Detection Range | 360° full airspace | | |
| Transmitting Band | GPS-L1, GLONASS-L1 (BDS-B1/Galileo-E1/L2 are available as options) | | |
| Transmitting Power | <10mW | | |
| Control Radius | 500m~1000m (Customization options are available) | | |
| Operating Temperature | -40°C~70°C | | |
| Protection Level | IP66 | | |

Technical specification is subject to change without prior notice.



Passive Fixed Drone Detection System

Model: DX070F

The device is eco-friendly as it operates by passively receiving signals without emitting any electromagnetic signals. This system is ideal for various sectors including public safety, correctional facilities, critical infrastructure, government agencies, military operations, law enforcement, border patrol, and VIP/private property protection.

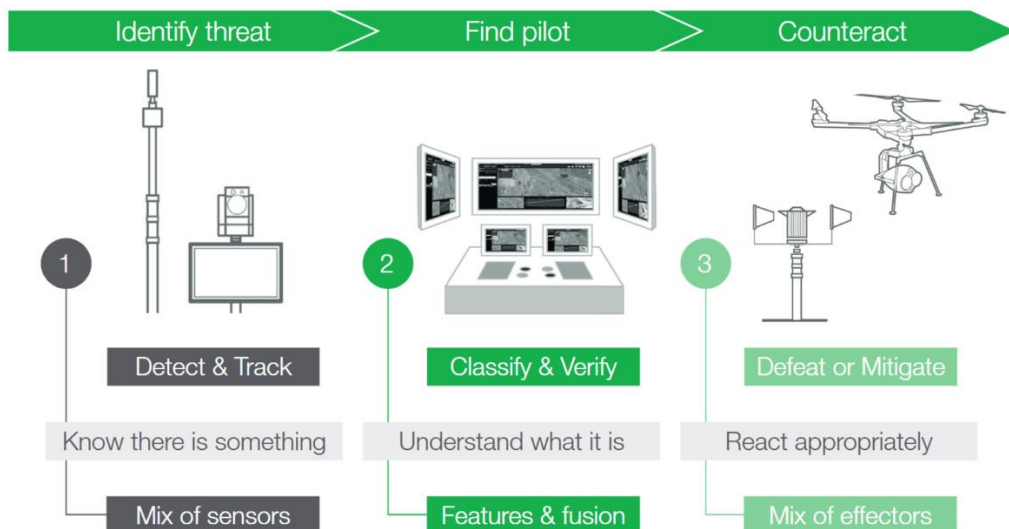
Product Features:

- **Passive Detection:** Passively receives only and does not emit any electromagnetic signals.
- **Accurate Positioning:** It can precisely detect the approach of the drone and effectively position the target.
- **Networking Positioning:** By using a single device, accurate direction finding can be accomplished; by using multiple devices, networking-based positioning can be achieved, and the distance can be extended infinitely.
- **Precise Identification:** It can precisely identify different drones of the same brand and model and identify the electronic fingerprint of drones.
- **Black and White List:** One-click to mark the black and white list, there will be no alarm for white-listed drones.
- **Full-covered Drone Library:** Support various types of drone brand, FPV drones, WIFI drones, DIY drones, etc. Cover more than 98% drones on the market.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: DX070F | | Passive Portable Drone Detection System | |
|----------------------------|---|---|--|
| Detection Bands | 30MHz~6GHz | | |
| Main Bands | 400MHz, 800MHz, 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) | | |
| Detection Radius | 0~10km+ (Differences exist due to different environments and drone types) | | |
| Detection Rang | 360° full airspace | | |
| Direction Finding Accuracy | (RMS) 3°(hovering); 10°(moving) | | |
| Detection Quantity | >40 drones (Simultaneous) | | |
| Operating Temperature | -40°C~65°C | | |
| Protection Level | IP66 | | |

Technical specification is subject to change without prior notice.



Passive Portable Drone Detection System

Model: D8050P

This device utilizes CRPC+ message-level protocol analysis technology for development. It includes an integrated drone control platform that allows for real-time monitoring and early warning of drones within the detection range. The device can accurately display information such as the target drone's serial number, model, position, speed, altitude, flight path, remote control position, and other relevant data. The product combines drone detection and identification, early warning positioning, and trajectory tracking functions. It is compact, lightweight, and portable, making it suitable for various low-altitude security protection applications.

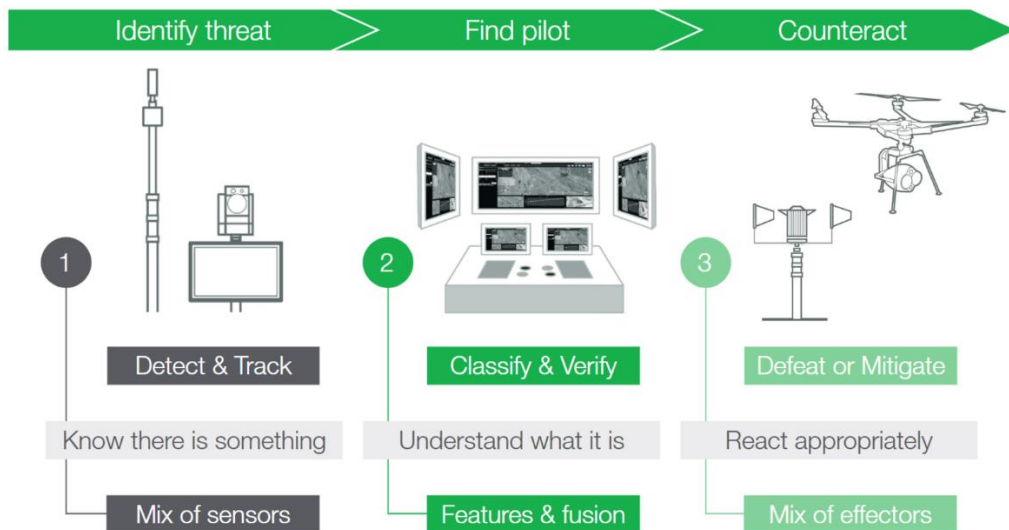
Product Features:

- Compact and Portable: Light in weight and small in size; Portable, shockproof and drop-proof.
- Trajectory Tracking: Multi-target trajectory tracking, Pilot (remote control) tracking
- Precise Identification: Precisely identify the serial number, model, position, speed, altitude, trajectory, and remote controller information of the drones.
- Position with Single Device: A single device can achieve accurate positioning of the target drone and the pilot (remote control).
- Black and White List: One-click to mark the black and white list, there will be no alarm for white-listed drones.
- Environmentally Safe: By adopting passive detection technology, there is no impact or disruption on the surrounding environment.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: D8050P | Passive Portable Drone Detection System |
|----------------------------------|--|
| Main Bands | 900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Customizable) |
| Detection Radius | 0~8km+ (Differences exist due to different environments and drone types) |
| Detection Rang | 360° full airspace |
| Detection Quantity | >20 Drones (Simultaneous) |
| Number of Drone Trajectories | >10 drones (Simultaneous) |
| Power Supply | Built-in lithium battery or mains input |
| Endurance | >4hours |
| Dynamic Detection Movement Speed | >60km/h |
| Dimension | 470mm*357mm*176mm (±2mm) |
| Weight | <13kg |
| Operating Temperature | -40°C~65°C |
| Protection Level | IP66 |

Technical specification is subject to change without prior notice.



Passive Handheld Drone Detection System

Model: D3020H

This product utilizes CRPC+ message-level protocol analysis technology for its development. It comes with an integrated drone's control platform that enables real-time monitoring and early warning for drones within the detection range. Additionally, it can accurately show the target drones' serial number, model, position, speed, altitude, flight path, remote control position, and other relevant information. The device combines drones' detection and identification, early warning positioning, and trajectory tracking capabilities. It is compact, lightweight, and portable, making it ideal for various low-altitude security protection needs.

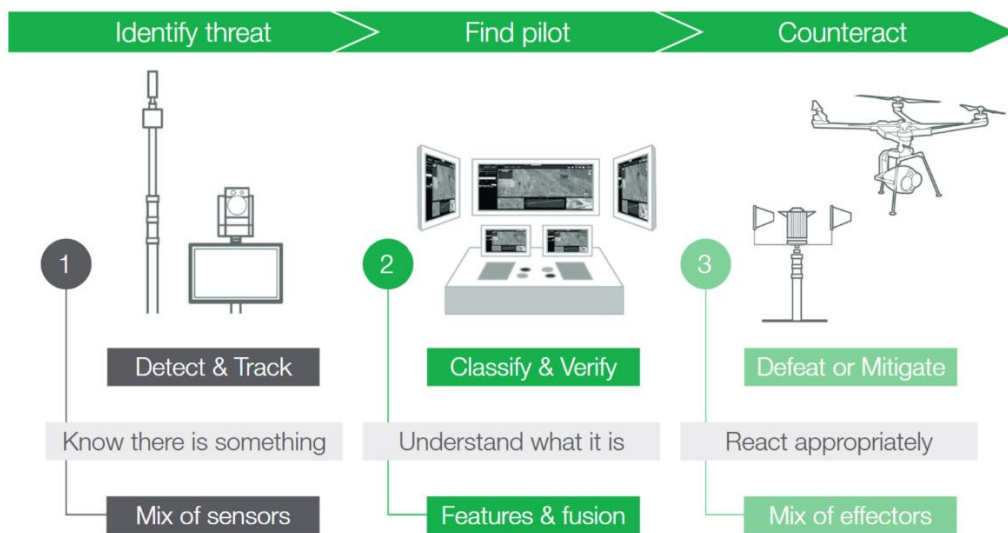
Product Features:

- Compact and Portable: Light in weight and small; Portable, shockproof and drop-proof.
- Trajectory Tracking: Multi-target drone trajectory tracking, pilot (remote control) tracking.
- Precise Identification: It can accurately identify serial number of different drones from same brand, the same model, same frequency band.
- Position with Single Device: One device can position the drones and pilot (remote control).
- Black and White List: One-click to mark the black and whitelist, there will be no alarm for white-listed drones.
- Environmentally Safe: By adopting passive detection technology, there is no impactor disruption on the surrounding environment.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: D3020H | Passive Handheld Drone Detection System |
|----------------------------------|--|
| Main Bands | 5.2GHz, 5.8GHz (Customizable) |
| Detection Radius | 0~3km+ (Differences exist due to different environments and drone types) |
| Position Accuracy | <2m(RMS) |
| Detection Quantity | >10 drones (Simultaneous) |
| Number of Drone Trajectories | >10 drones (Simultaneous) |
| Endurance | >4hours |
| Dynamic Detection Movement Speed | >60km/h |
| Dimension | 173mm*90mm*56mm (±2mm) |
| Operating Temperature | -25°C~50°C |

Technical specification is subject to change without prior notice.

Active Optoelectronic Drone Detection System

Model: D2000A

The system is based on the design concept of AI learning and integrates RF sensor and optoelectronic technology. It offers outstanding performance, complete functions, and distinct characteristics. The system combines active detection, intelligent identification, target positioning, and evidence collection and tracking. It is capable of continuously detecting, identifying, and tracking drones in low-altitude areas for 24 hours. The system features high integration, good scalability, and strong adaptability, making it suitable for long-term fixed deployment in critical areas such as airports, petrochemical plants, and key infrastructure.

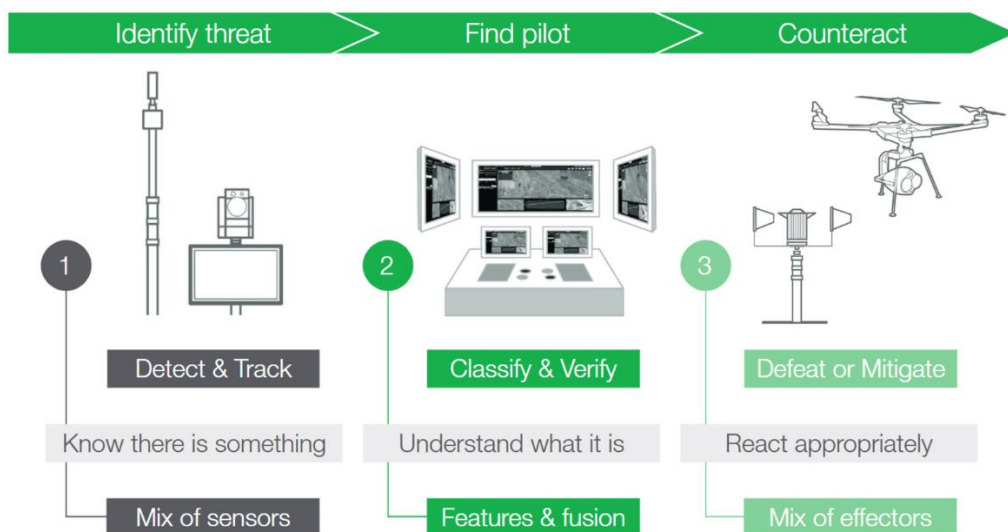
Product Features:

- **Run Independently:** The system operates independently as a stand-alone system and does not rely on any other equipment.
- **Cost Effective:** The single set of equipment possesses full functionality, allowing for individual operations and easy deployment. It can also work in conjunction with other equipment.
- **Active Detection:** The servo gimbal is designed to automatically scan and search the surrounding airspace. When a drone is detected, an alarm will be triggered immediately.
- **User-friendly:** With a simple click, the system will run automatically and perform detection and alarm functions.
- **Intelligent Early Warning:** Self-developed intelligent visual analysis and AI recognition algorithms are utilized to accurately identify and provide early warnings for different types of drones.
- **High Applicability:** The system has been integrated as one.
- **High protection level:** Suitable for various security scenarios.



Application Scenario:

- Public safety, prisons, critical infrastructure, government agencies.
- Military operations, law enforcement, border patrol, and VIP/private property protection.





Technical Specifications:

| P/N: D2000A | | Active Optoelectronic Drone Detection System | |
|-----------------------|--|---|--|
| Detection Mode | | Active scanning, searching, identifying, and tracking (without the guidance of other devices) | |
| Detection Function | | It detects and shows the captured images of the drone, target similarity, direction, and other information. | |
| Detection Distance | | 1500m+ (Visibility >10km) | |
| Focal Length | | 40x optical zoom | |
| Resolution | | 3840x2160dpi | |
| Horizontal View Angle | | >50° (Max) | |
| Detection Speed | | 30°/second | |

Technical specification is subject to change without prior notice.



Shenzhen Prevail Technology Co., Ltd.

1107, Zhongfutai Building, Guangke Road #1, Pingshan District, Shenzhen 518122, China

Tel: +86-755-26466353

Email: info@prevailtec.com

www.prevailtec.com

