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INTELLIGENT-UAS SOLUTIONS

Products & Solutions



SKYFEND



INTRODUCTION

The portable border control solution is specifically designed for C-UAS scenarios which demand high maneuverability, aiming to assist the border defense teams in efficient interference and jamming against drone threats in complicated environment. In response to the challenges of threats that are difficult to detect, locate, and interfere with, this solution ensures rapid response at critical moments through the collaborative cooperation of detectors and jammer operators, providing real-time protection and the ability to effectively interfere beyond line of sight, enhancing protection range and flexibility.

■ **Detector:** radio detection equipment is used, and detectors can provide timely early warnings against drone threats. Accurate positioning is achieved through rotating radar, which can clearly identify the direction of the target's approach, thereby providing effective guidance for jammer operators.

■ **Jammer operators:** with the help of navigation spoofing technology, they can effectively respond to drones equipped with GNSS. In addition, combined with the integrable function of SPS100 and SSH100, and guided by radar, it can achieve precise interference to the target drone, causing it to destabilize and fall.

SPECIFICATIONS

- **Radio detection:** 3km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Radar:** FPV 7 inches: 800 m; DJI Mavic 3: 1100m; DJI FC30: 2500m
- **Navigation spoofing:** 2km (with DJI Mavic 3 as typical model)
- **Radio Frequency Jamming:** 1.5km (SRRC mode based on DJI Mavic 3, typical model with a signal power of about 20dBm at 2.4GHz and about 30dBm at 5.8GHz, and the distance between the drone pilot and the jamming device is 3km)

ADVANTAGES OF SOLUTIONS



Accurate positioning
of intruding drones



Wearable compact
design



Networking for
multiple devices



Expand the Protection
Range of Interference
Capability beyond the
Effective Line of Sight



INTRODUCTION

Through the fusion of multiple sensors such as radar, radio detection equipment, and optical cameras, the energy facility protection solution of SkyFend can achieve real-time detection, tracking, and identification warning of low-altitude drones in the protected area, ensuring accurate detection with a low false alarm rate or even without any false alarm. With the guidance of the detection equipment, the interference equipment can offer more accurate interference and jamming against drone intrusions without affecting the operating drones at the energy station. Ultimately, it can achieve timely detection and interference against drone intrusions while ensuring the normal operation of energy facilities.

SPECIFICATIONS

- **Radio detection:** 5km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Visual and radar detection:** 7-inch FPV: 3.5km; Mini and Micro Drones (DJI Mavic 3): 5km; Small and Medium-sized Drones (DJI M300): 7km
- **Protocol analysis:** 3km (based on DJI Mavic 3 SRRC mode, signal power of about 20dBm at 2.4GHz, and about 30dBm at 5.8GHz, without strong signal interference under sighting conditions)
- **Radio frequency jamming:** 3km (SRRC mode based on DJI Mavic 3, typical model with a signal power of about 20dBm at 2.4GHz and about 30dBm at 5.8GHz, and the distance between the drone pilot and the jamming device is 6km)
- **Navigation spoofing:** 5km

ADVANTAGES OF SOLUTIONS



Precise situational awareness



24/7 unmanned surveillance and protection



Visualized detection and precise decision-making with replay capability



Combining intelligent interference strategies with directional interference. Minimum impact on other wireless devices in the surrounding area.



SkyShield PC

SkyShield PC supports mainstream computer operating systems, making it widely compatible with various computing environments. The system efficiently integrates with SKYFEND's counter-drone products via intranet or wired connections, ensuring information security while providing real-time situational awareness and in-depth data analysis capabilities. SkyShield PC supports 24/7 unattended operation, able to connect with SkyShield Tablet, and allows information sharing across multiple clients, making it an optimal solution for centralized control in small core areas.

Features

- Situational awareness
- Intelligent integration
- Blacklist and whitelist management
- Team Collaboration
- Local area prevention and control
- 24/7 unmanned surveillance

SkyShield Cloud

SkyShield Cloud is an intelligent cloud-based command and control system with unlimited compatibility, and may be integrated with all series of counter-drone products of SkyFend. It achieves device collaboration through data fusion technology, thus effectively implementing layered prevention and control. Users can control devices remotely, allowing for wide-area command and deployment. In addition, SkyShield Cloud supports flexible deployment, compatible with both private clouds (internal deployment) and public cloud platforms (such as Azure and AWS), meeting various levels of information security requirements.

With the help of cutting-edge technologies such as 3D simulation, sensor fusion and computer vision, SkyShield Cloud provides highly realistic visual situational awareness, real-time data analysis and dynamic threat assessment, supports all-weather automatic operation, reduces human errors, and ensures continuous airspace safety. With technological integration and automation features, it is regarded as a powerful tool for wide-area safety assurance.



SkyShield Tablet

As an advanced command and control (C2) system tablet, SkyShield Tablet has excellent data processing, monitoring, analysis and reporting functions, operates stably under various natural environmental conditions, and offers all-weather, all-terrain drone defense capability.

Dimension

L*W*H

326.5 * 228.5 * 44.5mm

Weight

About 2kg

Features

- Situational awareness
- Intelligent integration
- Blacklist and whitelist management
- Offline map
- Lightweight and portable
- Easy to operate

Features

- 24/7 Unmanned surveillance and protection
- Data fusion, and information synergy
- Situational awareness, and threat assessment
- Intelligent decision-making, and fast response
- Easy to deploy, and multi-point defense
- Incident review, and forensic analysis





SkyfendHunter Lite

SPS100/SPS110

Hunter Lite is a portable jammer against SUAVs. With the key functions for drone flight control and navigation frequency band jamming, it can repel drones or force them to crash to solve the threat of rogue SUAVs.

Features

- Covering mainstream drone models, efficient jamming
- Integrable with Spoofers
- Flexible and Portable, ready for deployment anytime

Jamming

Total jamming output	100W	Operating temperature	-20~55°C	Dimension	795*100*304mm
Coverage angle	Horizontal ±15°, and vertical ±10°	IP rating	IP65	Bare weight	4kg
Jamming frequency band	868MHz / 915MHz / 1.2GHz / 1.4GHz / 1.6GHz / 2.4GHz / 4.950GHz / 5.2GHz / 5.35GHz / 5.6GHz / 5.8GHz	Storage temperature	-20~60°C	Jamming duration	30min



SkyfendHunter

SHH100

Hunter is a versatile handheld drone jammer that can effectively detect, identify, locate, and mitigate drone threats. Hunter delivers exceptional effectiveness against the majority of types and models of drones. It can simultaneously disrupt the flight control and navigation signals of multiple drones.

With its compact design and user-friendly interface, Hunter is the ultimate counter-drone solution for various scenarios, including event security, VIP protection and energy facility security.

Features

- Integrated Detection and Jamming,
3 km Jamming, 2.5 km Detection
- Frequency Band Adaptive
- Drone data base upgradable,
Sustainable Upgrades
- Touch Screen Operation, Data Visible

Detection frequency band	0.4~6GHz / Key detection frequency bands: 800MHz, 900MHz, 1.2GHz, 2.4GHz, and 5.8GHz	Dimensions (L*W*D)	778*337*113mm
Detectable brands	Image transmission: Rush, PandaRC, TBS, Iflight and AKK, etc. / Remote control: ELRS and TBS Crossfire	Weight	6.5kg (with battery)
Detection Range	2.5km (based on DJI Mavic 3 drone consistent with SRRC standard, with 20dBm signal power at 2.4GHz and 30dBm signal power at 5.8GHz, without strong signal interference under sighting conditions)	Power supply mode	Battery / adapter
Jamming frequency band	0.4~6GHz	Operation time	Detection: 8h / jamming: 1h
Jamming power at each frequency band	0.4~2GHz: 20w / 2~4GHz: 20w / 4~6GHz: 40w	Operating temperature	-20~55°C
Jamming-to-control ratio	Commercial drone: DJI Mavic 3 (0.5w) 1:1	Storage temperature	-20~60°C



SkyfendHunter F

SFL100

Hunter F is a fixed drone countermeasure device integrating reconnaissance and attack, which can detect and receive drone communication signals and identify drone models. By monitoring the broadcast information of drones, the Hunter F can obtain the real-time key information, including latitude and longitude, altitude, speed, yaw angle, model, SN, and pilot position, and develop the precise radio attack strategies for different drone models.

Users can quickly view the device detection information, configure parameters and historical detection data through the C2 system. The device also supports blacklist and whitelist functions, providing users with flexible security management solutions.

Through careful design, Hunter F can run stably in various outdoor environments for a long time to ensure the continuous and reliable protection capabilities.

Features

- Full-band detection and interference
- Real-time feedback of interference effect
- Blacklist and whitelist management
- 24/7 unmanned surveillance and protection

Spectrum detection

Frequency band	0.4~6 GHz
Detection radius	5km (based on DJI Mavic 3 drone consistent with SRRC standard, 2.4GHz signal power of 20dBm, 5.8GHz signal power of 30dBm, under sighting conditions, without strong signal interference)
Display information	Spectrum, communication protocol (type), current working frequency band and other information.

Protocol analysis

Content	Drone ID & Remote ID
Detection radius	3km

Display information

SN, coordinates, altitude, yaw angle, speed, remote controller coordinates (or return point) and other information.

Radio interference

Frequency band	0.4~6GHz (software-defined frequency band)
Countermeasure radius	3km
IP rating	IP67
Operating temperature	-40~60°C
Dimensions (L*W*D)	508*261.5*450.5mm
Weight	10.2 kg



SkyfendHunter V

SVH100

The onboard FPV countermeasure device interrupts the reception of remote control signals of drone by the generation of high-power interference signals, forming a protective shield against FPV threats. This device uses software-defined radio technology to adapt to different wireless communication protocols and frequency bands through flexible software configuration. Compared with traditional analog countermeasures, it significantly improves interference effectiveness and sustainable countermeasure capability.

Features

- Efficient countermeasures, excellent protection
- No blind angle coverage
- Diversified scenario deployment
- Flexible software configuration and strong hardware scalability

Effective protection radius

300m

Continuous working time

>4h

Jamming-to-control ratio

TBS Crossfire (2W) 1:1; ELRS (1W) 1:3

IP rating

IP67

Effective protection height

>500m

Operating temperature

-40~70°C

Coverage angle

Horizontal 360°; Vertical 90°

Storage temperature

-40~70°C

Jamming frequency band

600-1100MHz, 2400-2500MHz, 5150-5250MHz, 5725-5850MHz

Dimensions (L×W×H)

760×578×480mm

Output power

Single-channel output power 100W; Overall output power 800W

Power consumption

2500W

Working mode

① Omnidirectional mode; ② Flexible mode (the interference direction can be configured independently in real time)

Main equipment weight

36kg

Scalability

Customizable frequency band, with max. output power of 100 W/frequency band



Skyfend Tracer P

STP100

Tracer P is a product specially designed for monitoring and managing aerial drone activities, and can provide real-time detection and early warning for mainstream brands such as DJI (including the latest O4 image transmission drone). By decoding the broadcast signal of the drone, it can obtain the detailed information such as the brand, model, SN, location, altitude, flight speed, and operator location of the drone, so as to help customers effectively monitor airspace security and protect the security and privacy of key places and event sites.

Features

- Support mainstream drone models and continuously update the model library
- Excellent detection performance
- Multi-mode and multi-scenario adaptation
- Multi-unit networking to achieve wide area coverage
- High practicality and usability

Detection model	All DJI models and drones with RID broadcast signals	Dimensions	222*85*45mm (without antenna)
Detection Range	3 km (omnidirectional)	Weight	<1kg (with battery)
Detectable frequency band	2.4GHz / 5.2GHz / 5.8GHz		
Parsing refresh rate	<3s		
Qty. of drones that can be decoded simultaneously	>30		
Positioning accuracy	<10m		
Operation time	4h		
Operating temperature	-20~55°C		
IP rating	IP65		



Skyfend Tracer S

STS100

Tracer S adopts advanced spectrum detection technology to provide users with real situational awareness and simple operation, and eliminate distractions. This device achieves the real-time detection by scanning the radio frequency spectrum and analyzing the data transmission protocol of drones, with no signal emission requirement. It covers mainstream commercial drones, such as DJI, Autel and self-made FPV drones and large multi-rotor drones. By using its automatic detection function, Tracer S can effectively identify threats and promptly notify users through audible, visual, and vibration alarms to ensure the safety of users.

Features

- Full band coverage
- Exceptional detection performance
- Real-time acquisition of FPV video
- Support 0.6-6GHz full-band radio signal monitoring

Spectrum detection

Detection model:	
Commercial model	DJI, Autel, FIMI, Parrot, etc.
FPV image transmission brand	TBS, RushFPV, PandaRC, Matekeey, RXC, SpeedyBee, iFlight, etc.
FPV flight control brand	TBS, ELRS, Foxeer, etc.
Detection Range	3km (based on DJI Mavic 3 drone consistent with SRRC standard, 2.4GHz signal power of 20dBm, 5.8GHz signal power of 30dBm, under sighting conditions, without strong signal interference)
Detectable frequency band	0.6~6GHz (main detection frequency bands: 800~900MHz, 1.2GHz, 2.4GHz, 5.2GHz, 5.8GHz)
QoS guarantee time that can detect continuously	≥10
Response time	<3s

Directional detection antenna

Frequency band	2.4GHz / 5.2GHz / 5.8GHz
Directional accuracy	≤15°
Video interception model	RushFPV, Matekeey, RXC, TBS, SpeedyBee, PandaRC, iFlight and other analog image transmission models
Operating environment	

Battery parameters

Standard voltage	11.07V
Nominal capacity	103.95Wh
Battery weight	488g
Dimensions	38*82*102mm
Working hours	5h (battery replacement within 10s supported)
Operating temperature	-20~60°C
Dimension	421*125*75mm (including antenna)
Total weight	1.55kg (including battery)





Skyfend Tracer F

STP110

By analyzing the broadcast protocol signals of drones, the Tracer F can comprehensively obtain various information of mainstream commercial drones, including brand, model, SN, position, altitude, and flight speed. Additionally, it can locate the position of the drone pilot, providing strong support for drone regulation. The fixed Tracer F can operate around the clock with 24h unmanned surveillance, offering continuous drone detection and early warning services, thus providing a strong guarantee for the sustainable development of the low-altitude economy.

Features

- Grabbing all mainstream drone models
- Wide-area coverage with multi-device networking
- Ultra-fast refresh rate, clear trajectory
- Economical, durable and reliable
- Continuous upgrade to stay ahead

Detection model	All DJI models, and drones with RID broadcast signals (including O4 image transmission drone)
Detection Range	Up to 9 km (in clear air, with no interference and line-of-sight)
Detection frequency band	2.4 GHz / 5.2 GHz / 5.8GHz
Parsing refresh rate	<3s
Qty. of drones that can be detected simultaneously	>50
Positioning accuracy	< 10 m

Equipment power supply	Supporting DC 12V, AC 12V/24V, AC 220V
IP rating	IP66
Operating temperature	-30~70°C
Storage temperature	-40~70°C



Skyfend Tracer P & Max 4T

STP100 / Max 4T

The TracerP system can comprehensively capture the key information of drones and accurately locate the illegal drone operators by efficiently decoding the broadcast protocol signals of drones. To improve the efficiency of capturing a rogue drone pilot, TracerP can display the detection results on the remote control interface of drone, to guide it to quickly fly to the designated location for shooting and tracking, providing law enforcement personnel with a simple, accurate, and efficient solution for capturing evidence of the "rogue" drone pilot.

Features

- Covers mainstream models
- High timeliness and rapid evidence collection
- High-definition video, worry-free evidence collection
- Unified platform, one-click synchronization

Tracer P

Detection model	All DJI models, and drones with RID broadcast signals (including O4 image transmission drones)
Detection Range	3km (omnidirectional)
Detectable frequency band	2.4GHz / 5.2GHz / 5.8GHz
Parsing refresh rate	<3s

Max 4T drone

Image transmission distance	20km
Max. horizontal flight speed	23m/s
Max. flying altitude	4km
Max. flight time	42min
Max. hover time	38min
Image sensor	1/2" CMOS, effective pixels (48 million)
Zoom camera lens	Focal length: 11.8-43.3mm (35mm equivalent focal length: 64-234mm) Aperture: f/2.8-f/4.8 Focusing distance: 5m~∞
Infrared camera lens	FOV: 42°; Focal length: 13 mm; Aperture: f/1.2; Focusing distance: 6m ~ ∞; Zoom: 16x digital zoom
IP rating	IP43
Operating temperature	-20~50°C
Storage temperature	-20~50°C



Skyfend Tracker Eye

SRP100

Tracker Eye is a core area visual and radar detection system that integrates phased array radar and electro-optical detection technology, ensuring all-weather and comprehensive highly reliable situational awareness without relying on drone radio signals. It can provide highly accurate location information, precise target category information, and threat confirmation videos. In addition, the SWaP-C optimization and modular design allows for rapid deployment of protection in key areas such as prisons and mansions.

Features

- 360° Unmanned Surveillance and Protection
- High-Precision Positioning Detection
- Strong Anti-interference Ability, Adaptable to Complicated Environment
- Intelligent Recognition & Electro-Optical Quick Locking
- Highly Cost-effective

Radar Parameters

Detection Range	7-inch FPV: 800m; Mini and Micro Drones: 1100m (DJI Mavic 3); Small and Medium-sized Drones: 2500m (DJI FC30)
Recognizable Targets	Drones, Birds, Personnel, Vehicles
Field of View (FOV)	Azimuth: 0~360° / Pitch: 0~90°
Max Target Detection Speed	60m/s
Detection Range Accuracy	2m
Detection Angle Accuracy	0.5mrad
Target Locking Time	<4s
AI Target Recognition Accuracy	98% (drone)
Vision System	Visible Light & Infrared Thermal Imaging

EO/IR Systems

Visible Light Lens Resolution	1920 × 1080 (FHD)
Focal Length of Visible Light Lens	6.5-312mm
Zoom Ratio of Visible Light Lens	48X
Infrared Lens Resolution	640×512
Infrared Lens Focal Length	75mm

*Note: Some identification functions require visual aids