SKYLABS

Global Intelligent Security Expert

SECURITY POWERED
TECHNOLOGY COMPANY

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Skylabs, headquartered in Ankara, is a next-generation defense technology firm dedicated to the design, development, and production of advanced counter-drone systems.

SKYLABS

100+

Served domestic and foreign customers

With a strategic focus on low-altitude airspace security, Skylabs delivers integrated, modular solutions tailored to detect, track, and neutralize emerging unmanned aerial threats across civilian and military domains.

70+

Patents and software copyrights

CORE TECHNOLOGIES

With full localization capabilities—from core software to hardware integration—Skylabs ensures national security compliance, rapid deployment, and lifecycle support tailored to Türkiye’s strategic defense needs and allied markets.

02

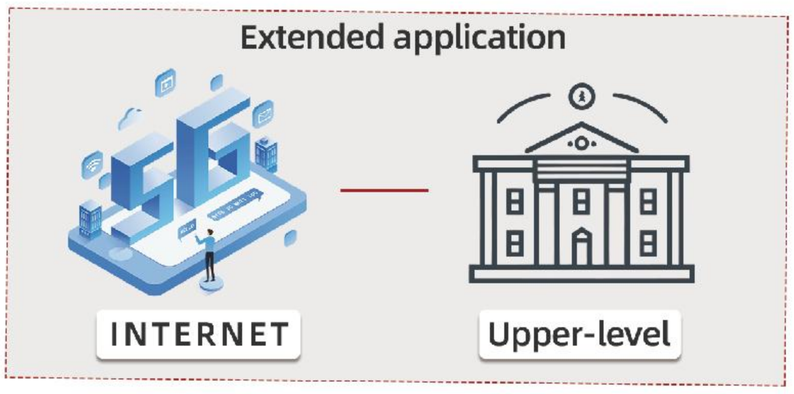
Drones Jamming & Low-Altitude Defense System

Radar detection equipment

Radio detection and Jamming equipment

Electro-optical detection equipment

ROUTING



SWITCH

SWITCH

Server

Network storage

Client

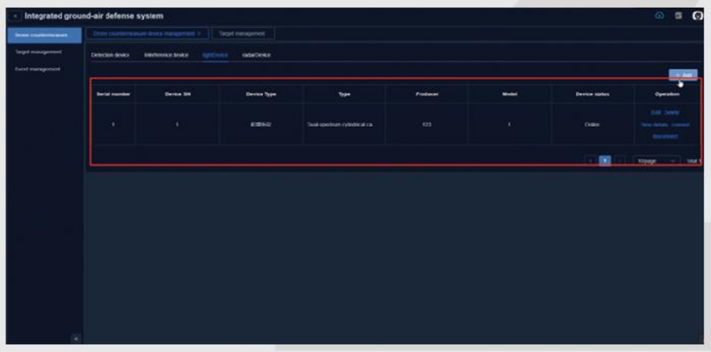
Core Features

Multi-source Cooperation and Intelligent Visual Tracking

It can guide the gimbal based on target position data from radar or drone detection equipment, enabling visual identification and long-range automatic tracking of drones through intelligent vision.

Device Management

Supports unified management of radio frequency detector, radar, electro-optical turntable, jammer, and spoofing devices.



System Overview

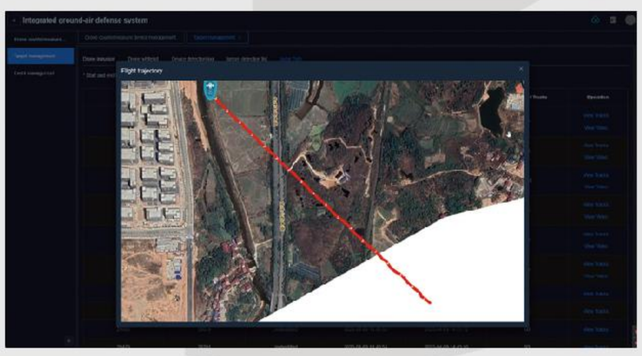
The system deeply integrates radar detection equipment, radio detection and jamming equipment, and electro-optical tracking equipment. By combining technologies such as multi-spectrum detection, multi-source data fusion, and intelligent analysis and decision-making, it can achieve early detection, rapid locking, stable tracking, accurate identification, and strong countermeasures against low-altitude drones, ensuring low-altitude security in key locations throughout at all times and in all dimensions.

Application Scenarios

Border Security | Public Safety | Special Operations Support | Military and National Defense | Energy Facility Protection | Security for Key Events

Drone Flight Trajectory Display

Supports real-time display of drone flight trajectory and replay history records of detected drone flight trajectory on GIS map.



Jamming and Spoofing

Use jamming and spoofing device to attack or counteract drone, and support multiple jamming mode such as wideband jamming and unattend-ed attack.

Video Preview and PTZ Control

Supports real-time video preview, visible light and thermal imaging video switching, as well as control of gimbal orientation and zoom lens functions.

03

Vehicle-Mounted Type

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SKY100-AB

Vehicle-based Drone Detection and Jamming Equipment

Product Introduction

The equipment uses radio spectrum sensing technology, integrating detection and jamming. It can realize 360° all-round detection and jamming of unauthorized drones and force them to return or make an emergency landing. It has the characteristics of strong mobility, wide coverage, and real-time response.

Features

- 3 Convertible Applications
- Flexible Deployment on Various Types of Vehicles
- 3km Long-distance Jamming
- FPV Video Transmission Detected and Captured
- 360° Full-frequency-band Detection and Jamming

Specification

Detection frequency band	300MHz-6GHz full-frequency scanning, detection and display
Detection range	≥5km (Depends on working conditions)
FPV video transmission detection	500MHz-6GHz full-frequency scanning, detection and display
Video transmission detection range	≥1.5km(Supports viewing real-time video)
Detection height	0~1200m
Jamming frequency band	900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz
Jamming distance	≥3km (Depends on working conditions)
Jamming coverage	Horizontal：360°; pitch：-90°~+90°
Working time	≥24h
Operation temperature	(-20°C~+60°C) ±2°C
Weight	64.25kg
Size	800mm*600mm (Diameter*Height)

VEHICLE-MOUNTED TYPE

SKY100-C

(8/10/12)
Vehicle-based FPV
Jamming Equipment

Product Introduction

This equipment is designed specifically to counter the threat of FPV drones. It emits interference signals to disrupt communication between the drone and the remote controller or interfere with navigation signals. The device is highly mobile and flexible, allowing for quick deployment to designated areas to control and interfere with drones.

Features

- 360° All-around Interference
- Customizable Frequency Bands
- Strong FPV Jamming Performance
- Automatic & Remote-controlled Multi-mode
- 1 km Jamming Range

Specification

Jamming frequency band	220MHz-300MHz, 300MHz-400MHz, 400MHz-500MHz, 500MHz-620MHz, 620MHz-780MHz, 740MHz-880MHz, 860MHz-1020MHz, 1080MHz-1220MHz, 1220MHz-1360MHz, 2400MHz-2500MHz, 5100MHz-5300MHz, 5680MHz-5900MHz (Customizable)
Band power	Each band ≥ 30W
Jamming range	0-1 km (Depending on conditions)
Jamming direction	360°
Response time	≤ 5 seconds
Power supply	AC220V/110V
Power consumption	≤1000W
Control method	Panel control or software control
Operation temperature	-40°C~+60°C

04

Fixed Type

FIXED TYPE

SKY200-AB

Fixed Drone Detection and Jamming Device

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Product Introduction

The device is based on multi-sensor fusion technology and integrates various technologies such as radio detection, protocol decoding, electromagnetic jamming, navigation spoofing, and networked supervision. It combines scanning, detection, jamming, and spoofing into one unit, enabling linkage between one detection unit and multiple jamming units. This allows for the establishment of a comprehensive detection and defense system, meeting diverse low-altitude defense needs both domestically and internationally.

Features

- 360° Full Frequency Band Detection
- 1+N Collaborative Linkage
- FPV Video Transmission Detected and Captured
- Super Interference to FPV Drones
- Integrated Detection, Jamming, and Spoofing on One Unit

Specification

Detection frequency band	70MHz-6GHz full-frequency scanning, detection and display
Key detection frequency band	8433MHz, 530MHz, 750MHz, 800MHz, 900MHz, 1.2GHz, 2.4GHz, 3.3GHz, 5.2GHz, 5.8GHz
Detection range	≥10km (Depends on working conditions)
FPV Video transmission detection	500MHz-6GHz full-frequency scanning, detection and display
Video transmission detection range	≥1.5km(Support viewing real-time video)
Azimuth range	Horizontal: 360°, Pitch: 90°
Jamming frequency band	700MHz-840MHz, 860MHz-930MHz, 1080MHz-1200MHz, 1200MHz-1340MHz, 1560MHz-1620MHz, 2385MHz~2490MHz, 5100MHz-5300MHz, 5720MHz~5860MHz
Jamming distance	≥3km (depends on working conditions)
Spoofing radius	1 ~ 3km+ (Depends on environment and drone model)
Spoofing signal	GPS, GLONASS, BD
Spoofing activated time	≤4s
Direction finding accuracy	≤±15RMS°
Operation temperature	-40°C~+60°C
Weight	Detection device: ≤17kg, Jamming device: ≤30kg
Size	Detection device: 400mm*516mm (Diameter*Height) Jamming device: 465mm*275mm*510mm (Length*Width*Height)

*Note:The spoofing function is optional and can be selected by users according to their needs.

SKY200-A

Fixed Drone Detection Device

Product Introduction

Through radio detection technology and protocol decoding technology, the device can identify drone type, remote ID, etc. It realizes drone detection, identification and early warning, positioning and tracking, and provides accurate information for subsequent defense.

Features

- Unmanned guard 24/7
- 360° Full Frequency Band Detection
- FPV Video Transmission Detection and Capture
- 1+N Collaborative Linkage
- 1V1 Professional Customized Services

Specification

Detection frequency band	70MHz-6GHz full-frequency scanning, detection and display
Key detection frequency bands	433MHz, 530MHz, 750MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz
Detection range	≥10km (Depends on working conditions)
FPV Video transmission detection	500MHz-6GHz full-frequency scanning, detection and display
Video transmission detection range	≥1.5km(Supports real-time video viewing)
Minimum height	0m
Azimuth range	Horizontal: 360°， Pitch: 90°
Operation temperature	-40°C~+60°C
Weight	≤17kg
Size	400mm*516mm (Diameter*Height)

FIXED TYPE

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SKY200-C

Fixed Drone Detection and Jamming Device

Product Introduction

The device has excellent capabilities of detection, identification, interference, jamming and long-distance working. It does not require supervision and automatically detects and counteracts drones, forcing them to land or return, preventing drones from entering the defense zone and protecting the safety of low-altitude airspace.

Features

- Super Interference to FPV Drones
- 360° Full Frequency Band Detection
- FPV Video Transmission Detection and Capture
- 1+N Flexible Deployment
- 13 Frequency Bands & 4 Directional Jamming Arrays

Specification

Detection frequency band	70MHz-6GHz full-frequency scanning, detection and display
Key frequency bands	433MHz, 530MHz, 750MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 3.3MHz, 2.4GHz, 5.2GHz, 5.8GHz
Detection range	≥10km(Depends on working conditions)
FPV Video transmission detection	500MHz-6GHz full-frequency scanning, detection and display
Video transmission detection range	≥1.5km(Supports real-time video viewing)
Azimuth range	Horizontal: 360°， Vertical:-90°-90°
Detection response time	≤10s
Omnidirectional jamming frequency band	420MHz-480MHz, 650MHz-730MHz, 740MHz-840MHz, 860MHz-930MHz, 1 080MHz-1200MHz, 1200MHz-1340MHz, 1340MHz-1500MHz, 1560MHz-1620MHz, 4880MHz-5080MHz, 5870MHz-6060MHz, 5100MHz-5300MHz, 5720MHz-5860MHz, 2385MHz-2490MHz(Customizable)
Unidirectional jamming frequency band	850MHz-950MHz、2385MHz-2490MHz、5720MHz -5860MHz、5100MHz-5300MHz
Jamming distance	≥3km (Depends on working conditions)
Operation temperature	(-40°C~+60°C)±2°C
Weight	≤200kg
Size	1000mm*2400mm (Diameter*Height)

SKY200-TD

Fixed Full-frequency
Counter-deception Device

Product Introduction

This device combines both jamming and spoofing capabilities. It transmits radio signals to create an electromagnetic shield within a specific area, severing drone communication with the control center and forcing them to return or leave, preventing them from entering the controlled area. This device can be used in conjunction with radio detection equipment, linked via a management platform, to counter and deceive drones within the protected area.

Features

- Full-frequency Countermeasures
- Autonomous Frequency Band Selection
- Integrated Design
- Unmanned Operation
- Multiple Jamming Modes

Specification

Countermeasure frequency range	300 MHz – 6 GHz
Spoofing frequency bands	GPS L1 C/A, GLONASS G1, BDS B1I, Galileo E1
Countermeasure (Jamming) range	5–10 km (Typical target)
Maximum output bandwidth	250 MHz
Spoofing (Deception) range	≥1km(Customizable)
Maximum concurrent jamming channels	6
Jamming coverage angle	Azimuth: 0°–360°; Elevation: 0°–70°
Jamming sub-bands (examples)	300–1000 MHz, 1000–2500 MHz, 2500–4000 MHz, 4000–6000 MHz, 5725–5850 MHz, 1575–1620 MHz
Total system power consumption	≤ 2500 W
Power supply	AC 220 V
Countermeasure unit weight	30 kg
Countermeasure unit dimensions	560mm*640mm*510mm(Length*Width*Height)
Environmental operating range	−40 °C to +60 °C (±2 °C)

FIXED TYPE

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SKY200-S1

Fixed Navigation Decoy Device

Product Introduction

This product can regenerate satellite navigation spoofing signals in real time across at least two frequency bands, deceptively jamming the navigation coordinates received by satellite-based drones. This enables directional repelling (in eight directions) and area denial, ensuring low-altitude safety.

Features

- Real-time Decoy Signal
- Defense Zone Creation
- Functional Expansion
- Low Environmental Impact
- Unmanned Operation

Specification

Supported frequency bands	GPS L1, GPS L2, GPS L5, GLONASS L1, BDS B1, Galileo-E1
Onset time	<10s
Number of deceptive drones	≥10
Frequency tolerance	$<\pm 2 \times 10^{-6}$
Defensive range	Radius ≥1 km（Customizable）
Power supply	AC 220V/50Hz
Operating temperature	-40°C to +70°C
IP Rating	IP65
Dimensions	355mm × 351mm × 150mm(Length*Width*Height)
Main unit weight	≤11kg

05

Portable Type

SKY600-A

All-Scenario Drone Detection and Positioning Device

(App)

Product Introduction

This device integrates full-spectrum detection, drone and pilot positioning, FPV video capture and storage. It is capable of accurately identifying quadcopters, fixed-wing drones, DIY types, and FPV drones in complex electromagnetic environments, and provides audible, visual, and vibration alerts. It is primarily used in scenarios such as routine patrols, critical asset protection, team operations, and investigation and evidence collection.

Features

- 4 Detection and Parsing Modes
- FPV Real-time Video Capture
- Multi-device Alarm Push
- 5 Versatile Usage Methods
- 12km+ Long-range Recognition and Positioning

Specification

Detects	Mainstream drones such as DJI, Docom, and Haboson, as well as FPV drones and DIY drones
Detection range	Supports custom scanning from 70MHz to 6.2GHz (default detection frequency 400MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz; other frequency bands can be (Customized)
Location models	Full DJI series, select Docom models
Detection range	≥10km for mainstream models, ≥2km for FPV drones
DID/RID Location range	≥10km for DID, ≥3km for RID
Location accuracy	≤10m
FPV Image transmission detection	Supports all analog image transmission detection bands from 500MHz to 6GHz (Customizable)
Image transmission detection radius	≥1.5km (with line of sight, clean electromagnetic environment)
Video capture distance	≥1.5km (with line of sight, clean electromagnetic environment)
Power supply	Lithium Battery
Battery life	≥6h (main unit)
Terminal dimensions	744.5mm (Including antenna) * 280mm * 104mm (Length*width*height)

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SKY500-AB

Portable Drone Detection and Jamming Shield

Product Introduction

The equipment consists of a drone detection system and a radio jamming system. It has excellent detection and defense performance and long-distance working capabilities. By suppressing the signals of drone remote control data transmission, image transmission, and navigation, it forces the drone to hover, land or return, effectively protecting the safety of low-altitude airspace and preventing drones from entering the defense zone.

Features

- 400MHz-6GHz Full-frequency-band Detection
- 2km Precise and Efficient Jamming
- Super Practical Usage
- Smart Touch Screen
- Rapid and Mobile Deployment

Specification

Detection frequency band	400MHz-1500MHz, 2200-2500MHz, 5150-5950MHz
Detection range	≥2km (Depends on working conditions and drone models)
Direction finding accuracy	≤10°
Azimuth range	Horizontal: 0°~360°
Jamming distance	≥2km (Depends on working conditions and drone models)
Jamming frequency band	900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz
Operation screen	≥3.5-inch touch screen to display drone frequency band, signal strength and other information
Jamming coverage angle	Horizontal≥45°, Vertical≥30°
Frequency band switching	Can select separate communication interference, separate navigation interference or full frequency interference
Network control	Can be interconnected with mobile terminal (APP) and back-end command and management platform at multiple levels (Optional)
Battery life	≥20h, equipped with detection and alarm function in standby mode
Operation temperature	-40°C~+60°C
Weight	≤8kg (Including the battery)
Size	390mm*160mm*330mm (Length*width*height)

SKY400-EA

Portable Drone Detection and Wrist Watch Alert Coordination Device

Product Introduction

The device is mainly composed of a detection host and information-receiving terminal (wrist watch), and has functions such as detection, display and control, and team coordination.The product adopts low-power ultra-wideband digital reception technology, signal detection algorithms, and drone identification algorithms, complemented by an external high-efficiency ultra-wideband antenna, which make it quickly and accurately detect and identify various types of quad-rotor, fixed-wing, DIY, FPV and other drones, and generate sound, light and vibration alarms.

Features

- Wireless Upgrade
- Full-frequency-band Detection
- 1+N Team Collaboration
- Super Early Warning for FPV Drones
- Dual-mode Detection
- Low False Alarm Rate

Specification

Identified drone type	Mainstream drones and most FPV, DIY drones, etc.
Detection frequency Band	Supports customized scanning of 70MHz-6.2GHz, default bands include 400MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (Others can be customized)
Detection radius	≥1.5km (Good views and electromagnetic environment)
Wrist watch reception distance	≥500m (Open and unobstructed environment)
Detection response time	≤3s (8 frequency bands)
Detection principle	Spectrum scan and spectrum feature identification.
Alarm mode	Sound, vibration, light
Screen size	2.0 inches
Power supply mode	Removable lithium battery
Battery life	≥6h (Host) ;≥12h (Wrist watch)
Supported languages	Chinese, English, Other language customizable
Operating temperature	-20°C to +50°C
Device size	142mm*63mm*38mm (Length*width*height)

*Note:The wristband is optional and can be selected by users according to their needs.

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SKY400-D

Portable FPV Video Transmission Detected and Captured Device

(Optional)

Product Introduction

This device integrates the functions of full-frequency detection, video transmission signal detection, display and control, video capture, and video storage in one unit.It can accurately identify drones such as quad-rotor, fixed-wing, DIY drones, FPV and other drones in complex electromagnetic environments, and generate sound, light, and vibration alarms.The device is suitable for various individual duty scenarios such as daily patrols, protection of important targets, team combat, investigation and digital forensic, etc.

Features

- 70MHz-6.2GHz Full-band Detection
- 500MHz-6GHz FPV Full Coverage
- Video Capture and Storage
- 1+N Working Mode
- Portable Design

Specification

Detection type	Mainstream drones and most FPV, DIY drones, etc.
Detection frequency band	Supports customized scanning of 70MHz-6.2GHz, default bands include 400MHz, 800MHz, 900MHz, 1.2GHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz (others can be customized)
Detection radius	≥1.5km (good views and electromagnetic environment)
FPV Video transmission signal detection	Supports the detection of all analog video transmission signal within the 500MHz-6GHz frequency bands (supports customization)
Video capture distance	≥1.5km (good views and electromagnetic environment)
Detection response time	≤3s (8 bands);≤5s (12 bands)
Detection principle	Spectrum scan, spectrum feature identification
Alarm options	Sound, vibration, light
Storage space	32G memory card,max 256GB
Screen size	7-inch touch screen
Power supply mode	Lithium battery
Battery life	≥5h (host)
Device size	212mm*137mm*41mm (Length*Width*Height)

SKY400-S

Lightweight Drone Jamming Device

Product Introduction

The device is lightweight, individual-used, and portable. While ensuring defensive performance, the device is highly integrated with microwave circuits and small antennas. It is a powerful tool for controlling drones within the visual range.

Features

- Long Battery Life of 24h
- One Click Trigger
- Cost-effective
- Lightweight Design of 2kg
- Efficient Jamming within 1km

Specification

Jamming frequency band	1550MHz-1620MHz, 2400MHz-2500MHz, 5150MHz-5250MHz, 5700MHz-5900MHz
Jamming distance	≥1km
Working temperature	-40°C ~ +60°C
Usage	Handheld, carried on the waist and back...
Battery	Two built-in low temperature resistant lithium batteries
Weight	≤2kg (Including the battery)
Size	355mm*60mm*255mm (Length*width*height)

06

Handheld Type

SKY300-f6

(6 frequency bands)
Handheld Detection and Jamming Device

Product Introduction

Through radio frequency scanning feature recognition and decoding, the device can comprehensively detect illegally intruding small, low, and slow drones, and through efficient jamming, it can achieve interference of drone remote control, image transmission and navigation signals, forcing the drone to return or land.

Features

- Full Frequency Band Detection
- 2km Long-distance Jamming
- 1+N Collaborative Linkage
- Strong Environmental Adaptability
- Professional Customized Services

Specification

Detection frequency band	2.4GHz, 5.8GHz (Supports expansion)
Instrumented range	≥2km (Depends on working conditions)
Jamming frequency band	800/900MHz, 1.2GHz, 1.4GHz, 1.5GHz, 2.4GHz, 5.8GHz
Jamming distance	≥2km (Depends on working conditions)
Battery life	≥24h
Operation temperature	-40°C~+60°C
Battery	Two built-in low temperature resistant lithium batteries
Weight	≤5kg (Including the battery)
Size	661mm*88mm*250mm (Length*width*height)
Language	Chinese, English, Other language customizable

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SKY300-f8

(8 frequency bands)
Handheld Detection and
Jamming Device

Product Introduction

The device integrates technological innovation and humanized structural design. Through radio frequency scanning feature recognition and decoding, the device can comprehensively detect illegally intruding small, low, and slow drones, and through efficient jamming, it can achieve interference of drone remote control, image transmission and navigation signals, forcing the drone to return or land.

Features

- 400MHz-6GHz Key Frequency Band Detection
- 1V1 Customized Services
- 2km Long-distance Jamming
- 1+N Collaborative Linkage
- Super Interference to FPV Drones

Specification

Detection frequency band	400MHz-1500MHz, 2200MHz-2500MHz, 5100MHz-5900MHz
Detection range	≥2km (Depends on working conditions)
Jamming frequency band	800MHz, 900MHz, 1.2GHz, 1.4GHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz
Jamming distance	≥2km (Depends on working conditions)
Battery life	≥24h
Operation temperature	-40°C~+60°C
Network & positioning	Support device positioning
Alarm mode	Alarm with sound and indicator light
Usage	Fixed, handheld, etc.
Battery	Two built-in low temperature resistant lithium batteries
Weight	≤6.5kg (Including the battery)
Size	770mm*110mm*305mm (Length*Width*Height)
Language	Chinese, English, Other language customizable

SKY300-J6

(6 frequency bands) Handheld Jamming Device

Product Introduction

This device is a jamming device with the best long-range jamming effect. It can achieve interference of remote control, image transmission and navigation signals of all kinds of small, low, and slow drones, forcing them to return or land.

Features

- 2km Long-distance Jamming
- 1+N Collaborative Linkage
- Continuously Jamming Over 100 Drones
- Professional Customized Services
- Strong Environmental Adaptability

Specification

Jamming frequency band	800/900MHz, 1.2GHz, 1.4GHz, 1.5GHz, 2.4GHz, 5.8GHz
Jamming distance	≥2km (Depends on working conditions)
Battery life	≥24h
Operation temperature	-40°C~+60°C
Battery	Two built-in low temperature resistant lithium batteries
Weight	≤5kg (Including the battery)
Size	688mm*85mm*208mm (Length*width*height)

SKY300-J8

(8 frequency bands)
Handheld Jamming
Device

Product Introduction

The device identifies and decodes illegally intruding drones through radio frequency scanning features, and uses electromagnetic suppression technology to achieve all-round interference and block the drone's remote control, image transmission and navigation signal, forcing it to return or land.

Features

- 2km Long-distance Jamming
- Continuously Jamming Over 100 Drones
- Super Interference to FPV Drones
- Strong Environmental Adaptability
- 1+N Collaborative Linkage

Specification

Jamming frequency band	400MHz, 900MHz, 1.2GHz, 1.4GHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz
Jamming distance	≥2km (Depends on working conditions)
Operation temperature	-40°C~+60°C
Battery	Two built-in low temperature resistant lithium batteries
Weight	6.5kg (Including the battery)
Size	797mm*92mm*270mm (Length*Width*Height)

07 APPLICATIONS OF SCENARIO

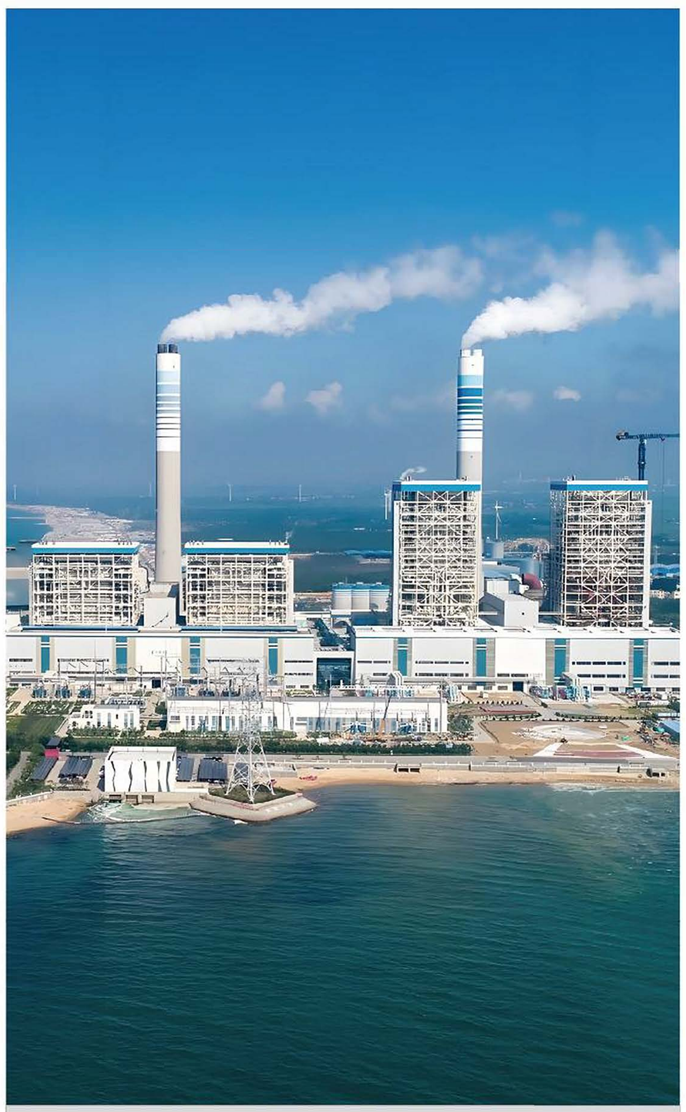
Law Enforcement

Military

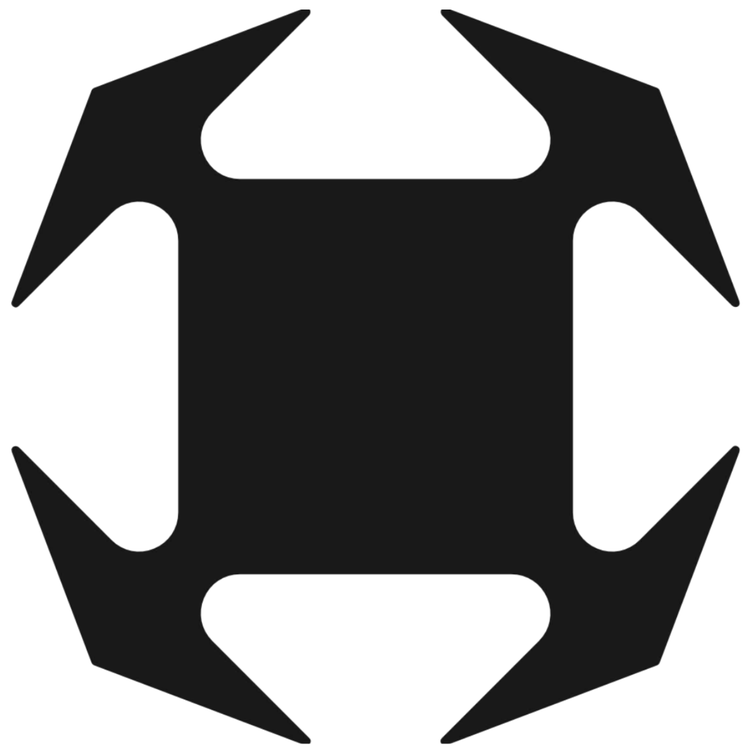
Petroleum and Petrochemical

Armed Police

Public Security (Immigration)



Nuclear Power



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