SKYFEND
Innovation For a Safer World

&

COMPANY
PRODUCTS
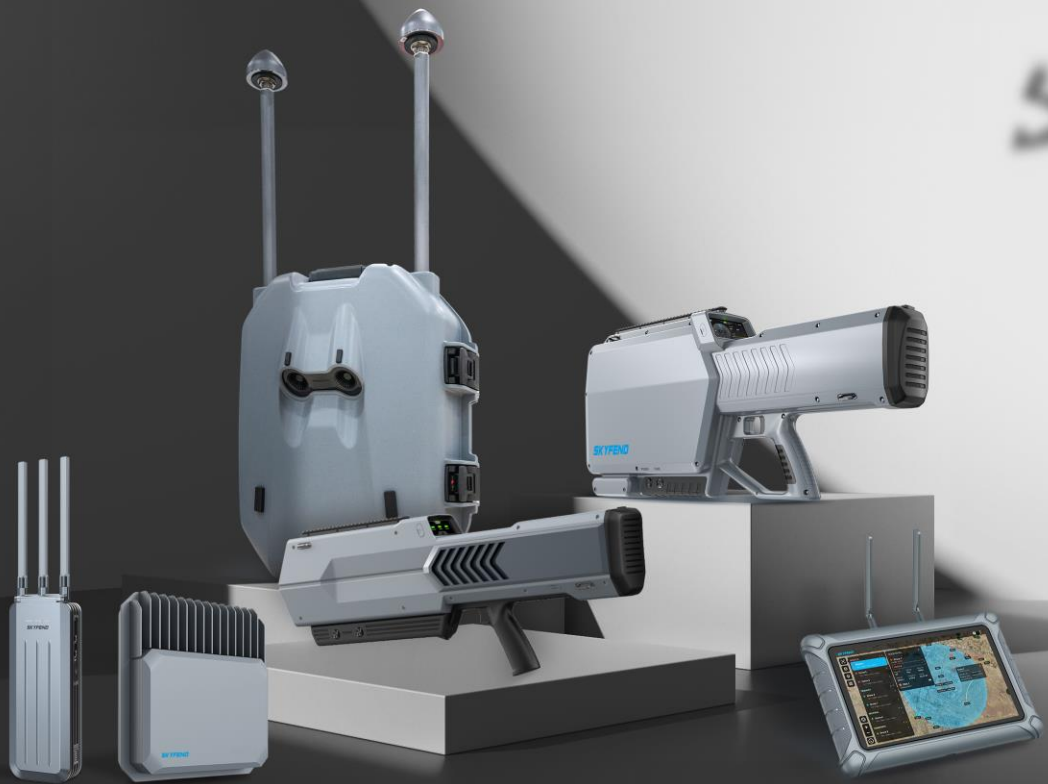
skyfend.com

Structure

Autel Group

SKYFEND	AUTEL®	AUTEL ROBOTICS
SkyFend Technology	Autel Technology	Autel Robotics
	Automotive Diagnostics / detection & analysis systems / Automotive Electronic components	

Founded in 2020, SkyFend Technology is a global leading provider of C-UAS solutions. As a national high-tech enterprise, our company is committed to technological innovation in the field of electronic countermeasures. We possess top-notch, proprietary core technologies and a competitive advantage in terms of industry-leading talent. Our focus is on building a comprehensive, all-weather countermeasure system for various C-UAS scenarios.

Our Company

SKYFEND

Technological Accumulation

The R&D team of SkyFend Technology is composed of highly qualified talents, with 8% holding doctoral degrees and 37% holding master's degrees.

SkyFend places great emphasis on intellectual property protection and innovation, having obtained 150 patents. Among them, 72 have been granted, covering the company's core technologies and innovative achievements. Furthermore, there are 78 patents currently under application.

37%
Masters

8%
PHD

150

Obtaining Patents Within 2 Years *

* 78 under application   72 obtained

SKYFEND

Jammer

SkyfendHunter

SkyfendHunter

Hunter is a cost-effective, versatile handheld jammer that can detect, identify, locate, and mitigate drone threats. Hunter delivers exceptional effectiveness against the majority of types and models of UAVs. It possesses the capability to simultaneously disrupt the control link, navigation and video transmission of multiple drones. Hunter revolutionizes mitigation technology with its sleek and all-in-one design, enabling precise RF and GNSS jamming. With its compact form factor and user-friendly interface, Hunter is the ultimate counter-drone solution for various scenarios, including event security, VIP protection and energy facility security.

POWER   FUNC

Features

| Long Range Protection | Mitigate Most SUAV Threats | Upgradable System |
| Versatile Touch Screen | Frequency Band Adaptation | Remote System Diagnostics |

Jammer

Skyfend Hunter

HARDWARE

Dimensions （mm）
778 x 337 x 113　（ LxWxH ）

Weight （kg）
6.5

Operation Time (hr)
Detection : ≥ 8 Jamming: ≥ 1

Touch Panel
3.5", 1280 x 720

DETECTION

Maximum Range (m)
2,000

Frequency
400MHz~6GHzCustomizable Full-Band Coverage

Direction
Omnidirectional

Direction Finding Precision
Azimuth： 10°

JAMMING

Maximum Range (m)
3,000

Signals Jammed
Flight Control and Image Transmission Signals

GNSS Signal Interference
Covers the global satellite positioning signal types, e.g. GPS, GLONASS,BeiDou, Galileo.

Frequencies
400MHz~6GHzCustomizable Full-Band Coverage

Automatic Frequency Adaptation
Supported

FoV
**Azimuth: ±15°
Pitch: ±7°**

POWER

Power Supply
Rechargeable Battery

Accessories
Battery x2, Charging Base x 1,Adapter x 1, Power Cable x 1

Voltage (V)
21.8

Capacitance (WH)
152.6

OTHERS

Software Update
Supported

Temperature Range
**Operating Temperature （°C）
-20 ~ +55
Storage Temperature (°C)
-20 ~ +60**

IP Rating
IP65

Available Modes
Handheld/Fixed

Jammer

SkyfendBlader

SkyfendBlader

Blader is a portable jammer for SUAVs. Featuring countermeasures for UAV flight control, map transmission, and GNSS bands, it can repel drones or force them to crash to solve the threat of rogue SUAVs.

Features

Efficient Jamming   Consociate Spoofing   Low SWaP-C   User Logs

Jammer

Skyfend Blader

HARDWARE

Dimensions（mm）
795 x 100 x 304

Weight（kg）
4

Jamming Time (min)
30

JAMMING

Range（m）
1,500

FoV
Azimuth: ±15°
Pitch: ±10°

Frequency
868MHz / 915MHz / 1.2GHz / 1.4GHz / 1.6GHz / 2.4GHz / 4.95GHz / 5.2GHz / 5.35GHz / 5.6GHz / 5.8GHzThe expansion module enables the expansion of arbitrary frequency bands.

OTHERS

Temperature Range
Operating temperature（℃）
-20 ~ +55
Storage temperature（℃）
-20 ~ +60

User Logs
supported

IP Rating
IP65

SkyfendDefender

SkyfendDefender

Defender is a compact and cost-effective K-band FMCW radar that provides close-range surveillance for land, sea and air applications. It's ideal for portable scenarios and high-value target defense, such as government buildings, official residences and prisons. It utilizes advanced environmental perception and target recognition algorithms to deliver rapid target detection and deployment capabilities.

Features

Lightweight Deployment
Low False Alerts
Integration

Modular Integrable Design
Easy Setup

Omnidirectional Protection
Data-Rich C2 System

Radar

SkyfendDefender

SWaP

Dimensions (mm)
210×215×64

Weight (kg)
2.5

Power (W)
85

Power Supply (V)
18~32

RADAR SYSTEM

Frequency (GHz)
24.05~24.25

Scanning Method
AESA

Waveform
FMCW

Tracking Method
TWS / TAS

Interface
Gigabit Ethernet / Wireless

PERFORMANCE

Detection Range (m)
>1,000 (SUAV)
>2,600 (Human)
>4,600 (Vehicle)

Distance Accuracy (m)
2

Distance Resolution (m)
3

FOV
Azimuth: 120°
Elevation: 40°

Angular Accuracy
Azimuth: ±1.0°
Elevation: ±3.0°

120°Az x ±20°El Airspace
Search Time (s)
3

Tracking Qty
5~20 (TAS)
200 (TWS)

Track Target Update Rate (Hz)
5~20

Speed Range (m/s)
±50 or 120
(based pattern)

Speed Accuracy (m/s)
0.6

Speed Resolution (m/s)
≤0.9

Identification Capabilities
Rotor UAV / Fixed Wing UAV / Birds

RELIABILITY

Operating Temperature (°C)
-40 ~ +55

Storage Temperature (°C)
-55 ~ +95

IP Rating
IP67

Drop Resistance (m)
2

Upgrade
OTA Supported

Detector

SkyfendTracer

Skyfend Tracer

Tracer is a portable UAV detector that effectively receives, analyzes and processes the radio signals of a wide range of UAV models. There are two Tracer models for various scenarios. Tracer P can swiftly determine the exact locations of UAVs and pilots by analyzing wireless signal protocol layer information, without causing any interference to wireless communication devices within the protected zone. In scenarios where UAV protocols are deactivated or inaccessible, protocol analysis becomes impractical. Tracer S utilizes spectrum detection technology for the comprehensive coverage of various UAV models. It enables the detection and precise orientation of a wide range of UAV models, surpassing the limitations imposed by the unavailability of UAV protocols.

Features

Locate Both Drone and Pilot Alternative	Wide Frequency Coverage Analysis/Spectrum Detection
Additional Antenna for 5km Range	C2 System Integration No RF Emission Protocol

SkyfendTracer

HADWARE

Body without Antenna (mm)

222 x 85 x 45

Antenna (mm)

200 × 3

Weight (g)

1,000 (battery included)

User Feedback

Haptic / Audible

BATTERY

Standard Voltage (V)

11.07

Weight (g)

400

Dimensions (mm)

38 x 82 x 102

Operation Temperature (°C)

-20 ~ +60

Battery Life (hr)

5 (battery replacement within 10s)

OTHERS

IP Rating

IP65

Operation Temperature (°C)

-20 ~ +55

Tracer P

Capability

Pilot Positioning and Drone Info Acquisition (latitude and longitude coordinates, elevation, velocity, yaw angle, model, serial number, and operator location.)

Models

DJI/Autel/Parrot/Skydio/ PowerVision/HUBSAN/FIMI

Detection Time(s)

< 3

Trackable Qty

> 30

Omni-Direction Range (km)

2

C2 Tablet

SkyfendGuider

Skyfend**Guider**

Guider C2 software offers an intuitive and feature-rich software platform, providing C-UAS awareness and reporting capability. Supported by sensor fusion, computer vision, edge computing, machine learning and artificial intelligence, Guider integrates radars, detectors and jammers, consolidating their data into a display. It is always on alert, ensuring round-the-clock monitoring of drone threats and effectively mitigating human error.

Features

Intelligent Data Integration

One-to-Many Control

24/7 Real-Time Alert

Friend-or-Foe Identification

3D Situational Awareness

Upgradable System

SkyfendSpoofer

Spoofer is an advanced GNSS navigation spoofing device engineered explicitly for SUAVs. Its primary purpose is to enforce area denial, redirect drones to predetermined orientations and manipulate their flight paths to designated locations. When combined with radar, spectrum detection devices and jammers, it can cause drones to crash or force them to land at appointed locations.

Features

All Frequency Coverage	High Accuracy
Quick Response	Ease of Use

SkyfendSpoofer

HARDWARE

Dimensions (mm)

470 x 406 x 204 (body without antennas)
540 x 406 x 204 (antennas retracted)
840 x 406 x 204 (Antenna deployed)

Weight (kg)

8.5

Radius of Antennas (mm)

33

Power (W)

≤ 60

Start-up Time(s)

< 10

Spoofing

Frequencies
GPS: L1、 GLONASS :G1、
Galileo E1、 BeiDou: B1

Signal Power (W)

≤ 5

Effective Range (km)

1
(replacing the antenna can improve the distance)

Time Synchronization Accuracy(ns)

< 50

Signal Intrusion Time (s)

≤ 5

Success Rate

100%

Spoofing Accuracy(m)

< 30

Others

IP Rating

IP65

Power Supply

Battery-powered & 220V AC powered

Operation Time (hr)

3

Portable

Product Suite

Tracer: 2km RF omni-detection + >2km oriented

Blader: 1.5km jamming (DJI, Autel, Parrot, DIY FPV, and so on)

Guider: Display information detected by Tracer | Multiple devices can be networked (similar to ATAK)

Spoofer: 2km GNSS spoofing | Associate with Blader to cause drones to crash or be controlled to land at an appointed location

Portable

Introduction

- Prevent long-range detection/bombing by enemy drones. It can provide a timely warning at a distance of 2km and cause them to crash.
- Prevent suicide attacks by enemy DIY FPV. It can provide an early warning, allowing our soldiers to hide in advance. Jammers can also be used to cause them to crash in advance.

Benefits

- Coverage for DJI, AUTEL, Parrot, DIY FPV, and so on
- **Operation time:** >8 hours
- **Weight:** approximately 15kg
- No deployment required | Can be operated by one soldier
- Capable of causing drones to crash or controlling them to land at a specified location

Solutions

Flexible Deployment
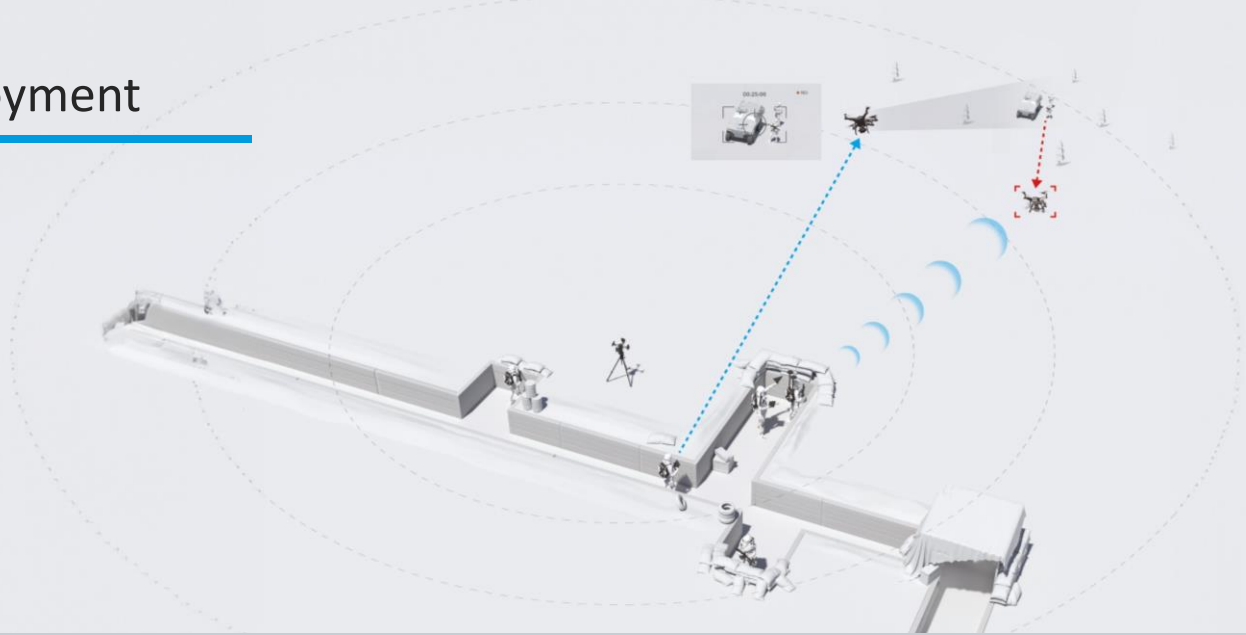
Product Suite

Tracer: 10km spectrum detection + protocol analysis

Defender: 5km detection and positioning

PTZ: 5km tracking and positioning

RF interference device: 10km radio interception

① A set of antennas + amplifiers: 360° jamming by rotation

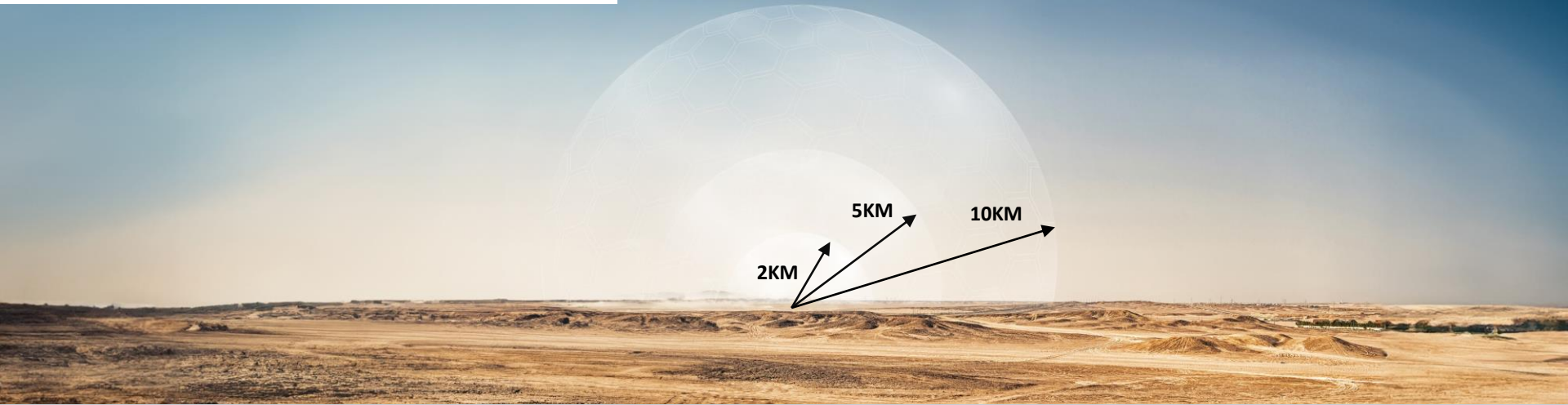② Multiple sets of antennas + amplifiers: jamming drones from multiple directions

Spoofer (Fixed): 5km control and takeover

Drones: 2km physical neutralization

Guider: Command and control

Note: Additional single-device reinforcement can be set up to enhance protection based on customer requirements.

Flexible Deployment

2KM **5KM** **10KM**

Introduction

- 10km detection layer: Detection and early warning | Model identification (DJI, AUTEL, Parrot, DIY FPV, and so on)
- 10km radio soft interception layer: Automated frequency band adaptation | Directional jamming
- 5km tracking layer: Precise positioning | Visual lock-on
- 5km control and takeover layer: Control drones to land at specified locations
- 2km physical interception layer: Launch air-to-air drones (>60m/s) to automatically lock onto and collide with target drones, causing physical damage

Solutions

Flexible Deployment

Benefits

- Coverage for DJI, AUTEL, Parrot, DIY FPV, and so on
- 24/7 unmanned operation | automatic detection and jamming
- AI recognition, machine learning, and edge computing to collect information and add
- new drone models to the drone database
- jamming multiple drones from different directions simultaneously

- Automatic frequency adaptation to reduce human errors and minimize operation time
- Integration of multiple countermeasure methods
  - ① Repel commercial drones | Shoot down FPV drones
  - ② Targeted Spoofing | Causing drones to crash
  - ③ Air-to-air physical countermeasure

Vehicle Based

Product Suite

Spoofer: >1.5km protected zone (no impact on vehicle navigation)

Jammer: >1.5km

Benefits

Automatic Defense

Introduction

- For drones with GNSS navigation: Unable to enter within 1.5km of the vehicle
- For FPV without GNSS navigation: Early warning and causing them to crash

Solutions

UAV Based

Product Suite

UAV-Based Tracer

Benefits

The pilot can be located without relying on GNSS navigation information.

Introduction

By utilizing UAV-based spectrum detection equipment, the wireless signals emitted by the pilots' controllers can be oriented. Combined with AI recognition, users can position pilots.

Solutions

Quality Control

SkyFend prioritizes industry-leading quality assurance and maintains advanced laboratories, including OTA, high/low temperature testing, and protocol analysis. Equipped with state-of-the-art equipment and technology, these labs ensure comprehensive testing and validation, guaranteeing the highest standards of quality and performance.

SKYFEND

THANK YOU