
SKYDEF
SKY DEFENCE SYSTEMS
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SKYDEF
Jammer
XSkyDef Hunter
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XSkyDefHunter

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.

Features

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

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Jammer

XSkyDefHunter

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

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Jammer

XSkyDefBlader

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XSkyDefBlader

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

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Jammer

XSkyDefBlader

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

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Radar

XSkyDefDefender

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XSkyDefDefender

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

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Radar

XSkyDefDefender

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

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Detector

XSkyDefTracer

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XSkyDefTracer

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

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Detector

XSkyDefTracer

HARDWARE

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

Tracer S

Capability

Drone Detection and Drone Info Acquisition (model name, frequency band, orientation)

Models

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

Detection Time(s)

< 3

Omni-Directional Antenna

Range (km): 2
Frequency: 868MHz/915MHz/2.4GHz/5.2GHz/5.8GHz

Directional Antenna (optional)

Range (km): 5
Frequency: 2.4GHz/5.2GHz/5.8GHz
Angular Accuracy: ≤ 10°

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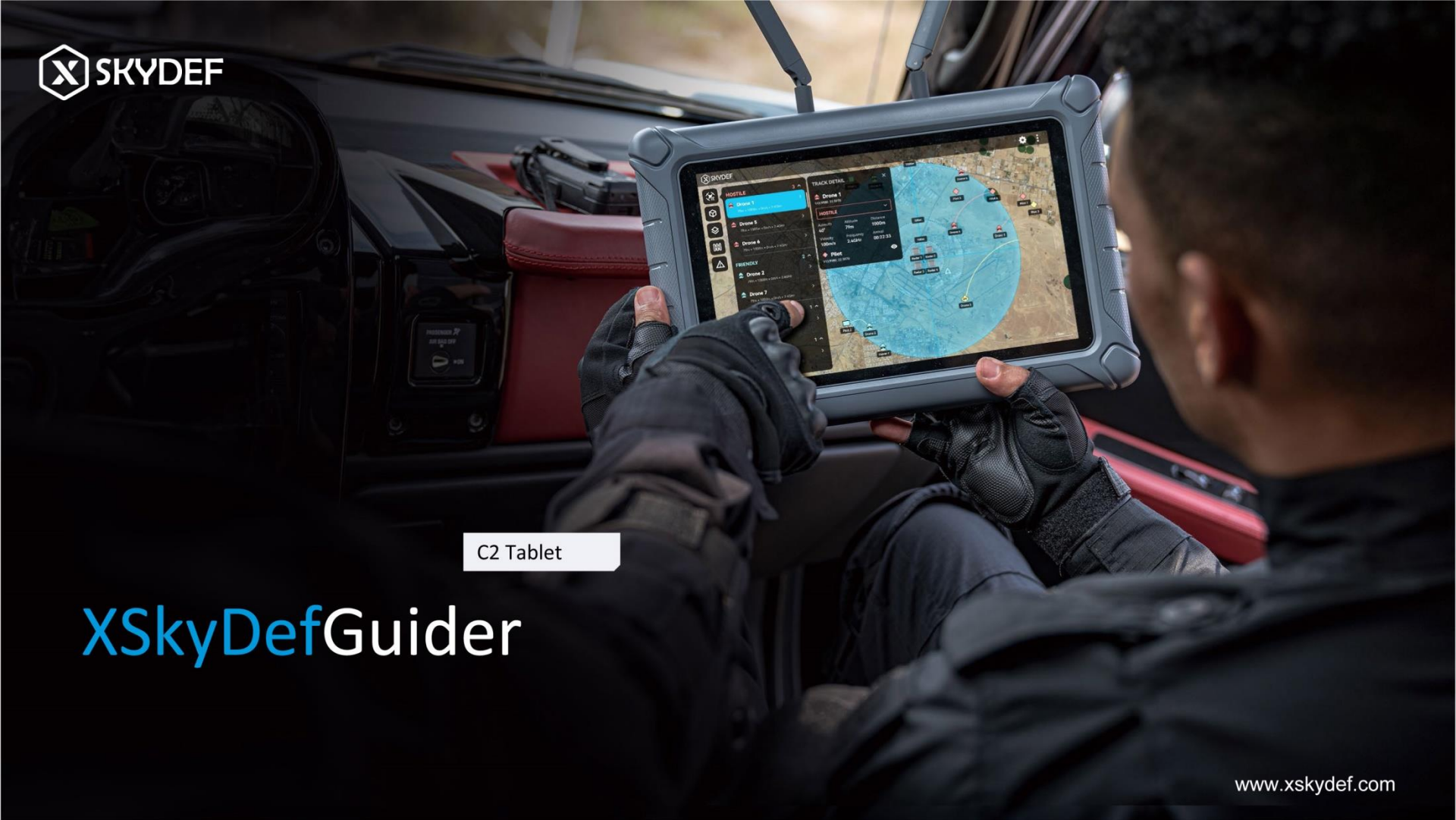

C2 Tablet

XSkyDefGuider

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XSkyDefGuider

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

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XSkyDefSpoofer

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

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GNSS Spoofer

XSkyDefSpoofer

HARDWARE

Dimensions (mm)

320 x 200 x 60

Weight (g)

5,000

Radius of Antennas (mm)

33

Power (W)

100

Start-up Time(s)

< 10

Spoofing

Frequencies

All Frequencies of BDS, GPS, GLONASS, Galileo Systems

Signal Power (W)

≤ 5

Effective Range (km)

5
(replacing the antenna can improve the distance)

Time Synchronization Accuracy(ns)

< 50

Signal Intrusion Time (s)

< 1

Success Rate

90%

Spoofing Accuracy(m)

< 30

Others

IP Rating

IP67

Power Supply

Battery-powered & 220V AC powered

Operation Time (hr)

8

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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

Flexible Deployment

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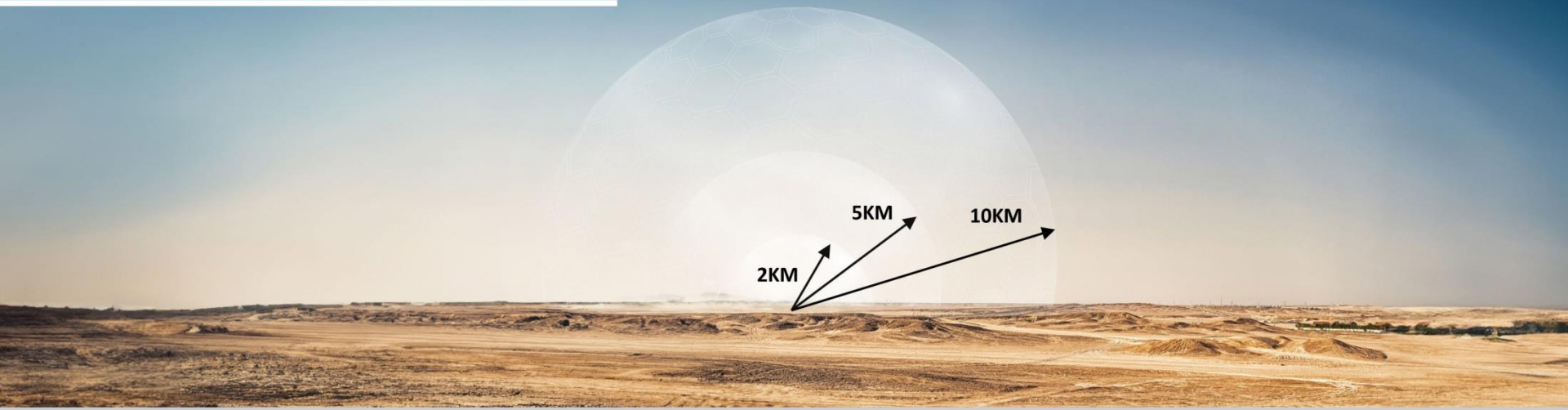

Introduction

- 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

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