

**Detect
Identify
Track
Mitigate**



SkyMini Data Sheet

**Smart & Autonomous RF Drone Detection System
The Next-Generation Counter-Drone Technology**

SkyMini Data Sheet | Passive Detection

Detect, identify, and locate UAVS and remote controllers

SkyMini

A wearable drone detection and tracking system
Fully passive with zero emissions



The package includes:

- ★ SkyMini unit
- ★ Antenna(s) : omni; wifi; GPS
- ★ Direction Finding (DF) antenna
- ★ Headphones
- ★ MOLLE attachment system
- ★ Rechargeable batteries
- ★ Battery charger

Detection methodology	Passive detection of radio-frequency (RF) signals; zero emission
Detection range	Up to 7KM
Detection angle range	Full 360° (all-airspace)
Detection finding (DF)	8 sector, each sector 45 degree. Supported without any manual movement of the DF antenna
List of UAVs	Extensive library coverage, which includes 450+ different drones/UAVs, remote controllers, drone-telemetry and FPV models
Drone swarm detection with electronic fingerprints	UAVs and remote controllers are detected precisely and identified with electronic fingerprints. Simultaneously tested and verified identification of 30+ different UAVs (15+ non-DJI models) and 30+ different remote controllers (15+ non-DJI models)
Whitelist/blacklist	Supports whitelist/blacklist feature for certain brands/models, which helps distinguish friend from foe
User interfaces	On-device graphical user interface. Comprehensive browser-based GUI upon connecting to a smartphone, tablet, laptop, or a PC over TCP-IP
Software upgrade	Can be upgraded online or offline
Dynamic deployment	Supports network as well as local deployment Units can be networked over TCP-IP Private or public LAN Compatible with other Skyclope detection units such as SkyEye Compatible with Mesh Tactical Radios for networking
Versatility	Wear on a vest, attach to a backpack, place in a pouch, hold in hand, use on a vehicle or simply place on the ground
User feedback options	Visual, Haptic/Vibration, Audible
Integration	ATAK Compatible with Tactical MANET radios Simple APIs for integration with any Digital Battle Management System
Control functions	Control functions include but are not limited to viewing the system operation status, receiving drone activity alerts, viewing black and white lists, etc.
User authorizations	Different user roles have access to different features
Unique Advantages	Unmatched Drone Model Coverage in a wearable form factor: 400+ drone models, from commercial DJI and Autel, to modified and Do-it-Yourself (DIY) drones, to all sorts of FPV drones.
Unrivaled Drone Swarm Detection	Handles Swarms: Detects up to 30 drones simultaneously. Precision Identification: Differentiate between drones and controllers of the same make and model. Unique ID Capability: Identify individual drones for enhanced friend or foe recognition.
Transforming Direction Finding (DF) in the wearable C-UAS segment	Automatic DF: Our innovative technology provides accurate direction finding automatically. No more manual movement of antennas, reading signal levels and guesswork. Multi-Target Tracking: Simultaneously track multiple targets with unprecedented efficiency. No more focusing on just one target at a time. On-the-Move Capability: Reliable direction finding even when mounted on a moving vehicle. Perfect for dynamic environments.
Enhanced Interface Options	Onboard screen: for quick and summarized data access Modern GUI: Connect a smartphone or tablet to enjoy the advanced features ATAK integration Audible and haptic interfaces

Specifications

Detection frequency bands:

- 400 MHz - 1800 MHz
- 2.3 GHz - 2.6 GHz
- 5 GHz - 6 GHz



Radio operating frequency range	70MHz - 6GHz
Scanning frequency resolution	≤100Hz
Minimum frequency bandwidth detectable	100Hz
Sensor Weight (without battery)	800g
Sensor Size (without battery and antenna)	16cm x 9cm x 4.5cm
Shell protection level	≥IP65
Working temperature	-22°C to +55°C (-7.6°F to +131°F)
Battery	Rechargeable lithium-ion battery (10.8 Volt DC) Commonly used NATO military grade battery Compatible with the standard PRC-152/PRC-163 radios
Battery duration	up to 6 hours
Supported wireless protocols	LightBridge, LightBridge 2, Ocusync, Ocusync 2.0, Ocusync 3.0, Ocusync 4.0, Autel Skylink, WIFI and WIFI variant protocols, LTE and LTE variant protocols, Zigbee, Bluetooth, BLE, NTSC, PAL, Majority of DIY remote controller and drone-telemetry protocols and FPVs, etc.
Supported wireless modulations	OFDM, DSSS, FHSS, GFSK, OQPSK, Analog FM, 2FSK, BPSK, QPSK, 16QAM, 64QAM, etc.

World Leading Counter-Drone Technology

About Skyclope

SKYCOPE C-UAS TECHNOLOGIES IS BASED IN VANCOUVER, CANADA

Skyclope C-UAS Technologies specializes in cutting-edge RF technologies for protection against drones. Our smart radio and AI-powered solutions are revolutionizing anti-drone defense, leading the way in integrating radio and AI for the ultimate anti-drone solution.

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Skyclope reserves the right to modify specifications without notice.

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