In situations where the drone's protocol signal is either turned off or encrypted, or in the case of FPV drones without identity signals, protocol analysis becomes impractical. Tracer S utilizes spectrum detection technology for the comprehensive coverage of various UAV models and application scenarios. 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

Spectrum Analysis

Utilizing the omnidirectional antenna, Tracer S excels in promptly identifying and quantifying the presence of UAVs within its detection range. It is achieved by analyzing the detected UAV video transmission signals and cross-referencing them with the comprehensive UAV database integrated within Tracer S.

Multi-Frequency Orientation

After an omnidirectional antenna alerts a drone intrusion, users can utilize the directional detection feature to target drones within 2.4GHz, 5.2GHz, 5.8GHz frequency bands, with support for customization of targeting frequency bands.

Data Visualization

Tracer S can be connected to the C2 tablet via Wi-Fi or a Type-C cable for real-time display of invading drone's brand, model, frequency, and direction information. It also supports multiple Tracer S devices connected to the same C2 system simultaneously.

Acquisition of FPV Video

Tracer S can receive and analyse the analog video transmission signal sent by the FPV, thus obtaining the real-time video from the FPV and displaying it on the C2 system.

SPECIFICATIONS

Hardware

Body without Antenna (mm): 222 × 85 × 45

Antenna (mm): 200 × 3

Weight (g): 1000 (battery included)

Corlour: Starry Gray

User Feedback: Haptic /Audible /Visual Flash

Spectrum Detection

Detection Models: FPV Image Transmission Module and DJI, Autel, FIMI, Parrot, etc.

Detection Range (km): 3 (Omni)

Frequency Band: 800MHz~6GHz

 (Key detection frequency bands: 800 ~ 900MHz, 1.2GHz, 2.4GHz, 5.2GHz, 5.8GHz)

Trackable Qty: ≥10

Detection Time (s): <3

False Alarms Per Day: <1

Directional Antenna (Optional)

Detection Range (km): 3 (Directional)

Frequency Band: 2.4GHz /5.2GHz /5.8GHz /Customizable

Angular Accuracy: ≤ 10°

Operating Environment

IP Rating: IP65

Operation Temperature (°C): -20 ~ +55

Battery

Standard Voltage (V): 12

Capacitance (Wh): 103.95

Weight (g): 400

Dimensions (mm): 38 × 82 × 102

Battery Life (hr): 4 (battery replacement within 10s)

Operation Temperature (°C): -20 ~ +60

Model of Video Acquisition

Team BlackSheep, PandaRC, RushFPV, Matek Systems and other analog video transmission systems

SkyfendTracer S

STS100