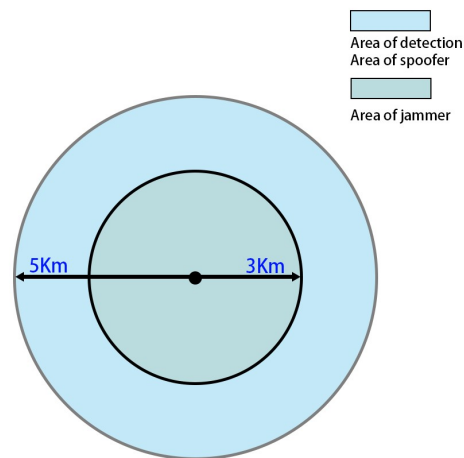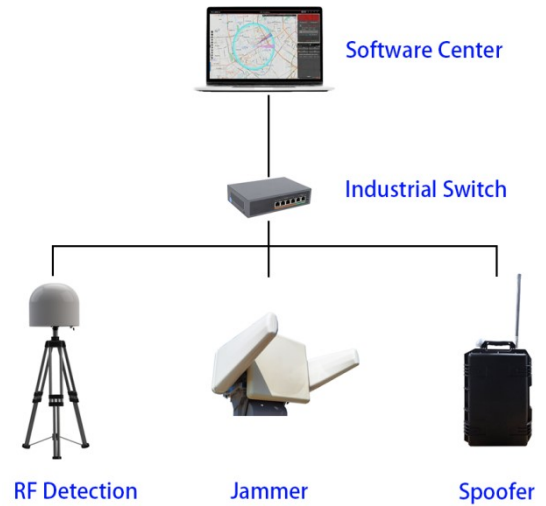# Anti Drone System Configuration A

System Components
1. RF detection system
2. Jamming system
3. GNSS spoof system

Software Center

Industrial Switch

RF Detection **Jammer** **Spoofer**

Area of detection
Area of spoofer

Area of jammer

5Km 3Km

Defense area diagram

Introduction to Working Principle:

The software system is responsible for managing the work of the sub-device system, and the devices directly communicate with each other through the industrial switch. The RF detector is responsible for collecting target data, and after discovering the drone, it analyzes and collects the drone information. Then the data is passed to the software system center through the switch. The software system issues instructions to the countermeasure device. After the detector is turned off, the countermeasure device is turned on for a certain working time. Then the countermeasure device is turned off and the detector is turned on again. If the drone signal is also detected, the above steps are repeated until the drone signal disappears. After the drone was subjected to countermeasures and lost the signal, the detector returned to the working state.

RF Detection System

Brief introduction

Radio drone detection equipment can detect radio signals radiated by drones. It can realize the functions such as drone detection, early warning, model identification and positioning tracking within the detection range, by using technologies of radio spectrum analysis. It can also identify and report information such as serial numbers of popular drones, drone locations, and pilot locations.

Specification

Parameter	Parameter values
Product model	S11
Working mode	Radio detection
Frequency range	70 to 6000MHz
Detection radius	5Km
Detection sensitivity	-118dB
Direction guide	Support
Detection angle	360°
Azimuth accuracy	≤3°
Respons time	≤5s
Swarm detection	≥25
Working time	24/7
Power supply	AC 220V
Total Power	≤55W
Communication interface	RJ45
Protection level	IP65
Working temprature	-30℃ to 60℃
Host dimension	≤400mm×500mm×400mm
Host weight	≤15Kg

Jamming System

Suppression equipment: by transmitting the same frequency electromagnetic wave signal to interfere with the communication link of the drone, forcing the drone to lose the image transmission signal and remote control signal, so as to achieve the purpose of driving away and forced landing.

Specification

Parameter	Parameter values
Product model	L02
Jamming type	Directional jamming
Jamming mode	Drive away and forced landing
Working frequency	900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 3.3GHz, 5.2GHz, 5.8GHz
Jamming range	3000m
Horizontal angle	360°
Vertical angle	60°
Rotation speed	0.05°/s to 60°/s
Power supply	AC 220V
Total power	≤800W
Communication interface	RJ45
Protection level	IP66
Working temprature	-30℃ to 60℃
Host dimension	≤470mm×400mm×700mm
Host weight	≤45Kg

GNSS Spoof System

By sending GPS decoy signals to interfere with the GPS positioning signal of the drone, the drone received the wrong positioning signal, and actively forced the drone into the wrong flight state. The main functions are directional drive away, active defense, virtual no-fly zone and other functions.

Specification

Parameter	Parameter values
Product model	P21
Interfering mode	Directional drive away, set up no-fly zone, fly in circles, forced landing, trapping drone
Working band	GPS\BDS\GLONASS\Galileo
Interfering range	5 Km
Signal power	≤10W(adjustable)
Azimuth angle	360°
Working time	24/7
Power supply	AC 220V
Total power	≤30W
Communication interface	RJ45
Protection level	IP65
Working temprature	-30℃ to 70℃
Host dimension	≤400mm×400mm×270mm
Host weight	≤16Kg