

# 无人系统安全防御技术 创新交流合作平台

INNOVATIVE EXCHANGE AND COOPERATION PLATFORM FOR  
UNMANNED SYSTEM SECURITY DEFENSE TECHNOLOGY

**2024**版



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## “WaveFeng Alliance”

In today's world, unmanned systems are profoundly influencing and changing the form of warfare. Preventing drone attacks on various important value targets has become a prominent issue, and how to choose the right security equipment has become the key. Therefore, Shenzhen WaveFeng Technology Co., Ltd. has initiated the establishment of the WaveFeng Alliance, which combines more than 20 top domestic low altitude safety production and sales enterprises to form an alliance.

In the field of unmanned system security defense, WaveFeng Technology has a profound professional technical accumulation, always guided by customer needs and with value creation as the goal. Provide customers with the most suitable unmanned aerial vehicle detection and defense system equipment, solve their difficulties in selecting equipment, and ensure that they can correctly identify and select unmanned system defense equipment. We have integrated upstream and downstream resources of the industrial chain, innovative technology resources, and market resources. By fully leveraging our respective resource advantages, we can jointly develop and serve our customers, and contribute to the technological progress of humanity. We use professional technology to provide customers with professional selection advice for low altitude safety system equipment.

## “武锋技术联盟”

当今世界无人系统深刻影响和改变着战争的形态，各种重要价值目标防无人机袭击成为突出问题，如何选择正确的安防设备成为关键，因此，深圳市武锋技术有限公司发起成立武锋技术联盟，联合国内20多家顶尖的低空安全生产销售企业组成联盟。

在无人系统安全防御领域，武锋技术拥有深厚的专业技术积累，始终以客户需求为导向，以价值创造为目标。为客户提供最适合的无人机侦测与防御系统设备，解决客户在选择设备时的困扰，确保他们能够正确地识别和挑选无人系统防御设备。我们整合了产业链上下游资源、创新技术资源以及市场资源。通过充分发挥各自的资源优势，我们共同发展、共同服务客户，并为人类的科技进步做出贡献。我们运用专业技术为客户提供低空安全系统设备的专业选择建议。

# “公司荣誉” HONOR

# “公司专利” PATENT



澳门回归保障感谢信

实战感谢信



# “产品介绍” INTRODUCTION

## 无人机侦测与反制一体化设备

Integrated Equipment For Drone Detection And Jamming



### 产品介绍 Technical Indicators

1. 纯频谱识别技术，不受无人机协议更新和加密影响；
2. 支持图传信号和跳频信号自主AI学习，不受机型库影响；
3. 唯一真正的察打一体，双模块双极化定向反制，反制效果好，对周围环境影响小；
4. 公司自主研发，发明专利技术；
5. 适用场合：军事驻地、工矿企业、电站、油田等重要价值目标防御；

1. Pure spectrum recognition technology, unaffected by drone protocol updates and encryption;
2. Support autonomous AI learning of image transmission signals and frequency hopping signals, unaffected by the model library;
3. The only true integration of detection and jamming, dual module dual polarization directional countermeasures, with good countermeasures and minimal impact on the surrounding environment;
4. The company independently develops and invents patented technologies;
5. Applicable occasions: Defense of important value targets such as military bases, industrial and mining enterprises, power stations, oil fields, etc;



### 技术指标 Technical Indicators

侦测范围	Detection range	50MHz-6GHz
侦测距离	Detection distance	1-5KM (100mW)
反制频段	Jamming frequency band	900M、1.2G、1.5G、2.4G*2、5.2G、5.8G*2
反制距离	Jamming distance	1-3KM
整机尺寸	Size	500*500mm
整机重量	weight	15KG

# WD-FI

## 频谱察打一体+报文解析飞手定位

Integrated Radio Spectrum Detection And Jamming Message Analysis For Pilot Positioning

### 技术指标 Technical Indicators

1. 完美融合C30无人机频谱侦测与反制一体化设备；
2. 既实现对任意无人机的频谱侦测识别定位，又实现了常规无人机的精准定位和飞手查找；
3. 实现常规无人机的飞行轨迹绘制和回放，飞手位置的清晰标注，机型序列号以及使用部门的管理；
4. 适用场合：公共安全、大型活动的管理等

1. Perfect integration of C30 unmanned aerial vehicle spectrum detection and jamming integrated equipment;
2. It not only achieves spectrum detection, recognition, and positioning for any drone, but also achieves precise positioning and pilot search for conventional drones;
3. Implement the drawing and playback of flight trajectories for conventional drones, clear labeling of pilot positions, model serial numbers, and management of user departments;
4. Applicable occasions: public safety, management of large-scale events, etc

### 技术指标 Technical Indicators

侦测范围	Detection range	50MHz-6GHz
侦测距离	Detection distance	1-5KM (100mW)
可定位无人机型号	Localizable drone models	DJY, Air, Mini, FPV, Avata and other models
定位范围	Positioning range	1-3KM
定位精度	Positioning accuracy	≤5m
定位刷新时间	Positioning refresh time	≤30s
反制频段	Jamming frequency band	900M、1.2G、1.5G、2.4G*2、5.2G、5.8G*2
反制距离	Jamming distance	1-3KM



# “产品介绍” INTRODUCTION

## 车载无人机防御系统

Vehicle mounted unmanned aerial vehicle defense system

# C30-C



### 产品介绍 Technical Indicators

1. C30的车载版本，纯频谱识别技术，不受无人机协议更新和加密影响；
  2. 支持图传信号和跳频信号自主AI学习，不受机型库影响；
  3. 唯一真正的察打一体，双模块双极化定向反制，反制效果好，对周围环境影响小；
  4. 公司自主研发，发明专利技术；
  5. 防震动，防雨防潮特别设计；
  6. 适用场合：军事应用，公共安全保障；
1. C30 in car version, pure spectrum recognition technology, unaffected by drone protocol updates and encryption;
  2. Support autonomous AI learning of image transmission signals and frequency hopping signals, unaffected by the model library;
  3. The only true integration of detection and jamming, dual module dual polarization directional countermeasures, with good countermeasures and minimal impact on the surrounding environment;
  4. The company independently develops and invents patented technologies;
  5. Specially designed to prevent vibration, rain, and moisture;
  6. Applicable occasions: military applications, public security guarantees;

### 技术指标 Technical Indicators

侦测范围	Detection range	50MHz-6GHz
侦测距离	Detection distance	1-5KM (100mW)
反制频段	Jamming frequency band	900M、1.2G、1.5G、2.4G*2、5.2G、5.8G*2
反制距离	Jamming distance	1-3KM
整机尺寸	Size	682mm*538mm*369mm
整机重量	weight	25KG

# F60

## 高速频谱察打一体设备

High speed spectrum detection and jamming integrated equipment

### 产品介绍 Technical Indicators

1. C30的升级高速版本；
  2. 单台18秒完成全频段（50MHz-6GHz）侦测定位；
  3. 三台组网6秒完成侦测定位，全频段封控；
  4. 特殊的反制方式设计；
  5. 适用场合：军事应用；
  6. 公司自主研发，发明专利技术；
1. Upgraded high-speed version of C30;
  2. A single device completes full frequency band (50Hz to 6GHz) detection and positioning in 18 seconds;
  3. Three sets of networking devices complete detection and positioning in 6 seconds, and all frequency bands are sealed off;
  4. Special jamming design;
  5. Applicable occasions: military applications;
  6. The company independently develops and invents patented technologies;

### 技术指标 Technical Indicators

侦测范围	Detection range	50MHz-6GHz
侦测距离	Detection distance	1-5KM (100mW)
反制频段	Jamming frequency band	全频段定制 Full band customization
反制距离	Jamming distance	1-3KM
同时识别与定位无人机数量	Simultaneously identifying and locating the number of drones	≥50
方位探测精度	Azimuth detection accuracy	≤10°



# “产品介绍” INTRODUCTION

## 高速频谱察打一体车载设备

High speed spectrum detection and jamming integrated vehicle equipment

# F60-C



### 产品介绍 Technical Indicators

1. F60-C的升级高速版本;
  2. 单台18秒完成全频段 (50MHz-6GHz) 侦测定位;
  3. 三台组网6秒完成侦测定位, 全频段封控;
  4. 特殊的反制方式设计;
  5. 防震动, 防雨防潮特别设计;
  6. 适用场合: 军事应用;
  7. 公司自主研发, 发明专利技术;
1. Upgraded high-speed version of F60-C;
  2. A single device completes full frequency band (50Hz to 6GHz) detection and positioning in 18 seconds;
  3. Three sets of networking devices complete detection and positioning in 6 seconds, and all frequency bands are sealed off;
  4. Special jamming design;
  5. Specially designed to prevent vibration, rain, and moisture;
  6. Applicable occasions: military applications;
  7. The company independently develops and invents patented technologies;

### 技术指标 Technical Indicators

侦测范围 Detection range	50MHz-6GHz
侦测距离 Detection distance	1-5KM (100mW)
反制频段 Jamming frequency band	全频段定制 Full band customization
反制距离 Jamming distance	1-3KM
同时识别与定位无人机数量 Simultaneously identifying and locating the number of drones	≥50
方位探测精度 Azimuth detection accuracy	≤10°

# GD2000

## 热成像探测光电设备

Thermal imaging detection optoelectronic equipment

### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品”

WAVEFENG ALLIANCE CERTIFIED PRODUCTS

采用可见光和热成像双通路设计, 提供了一种一体式视频监控解决方案。支持18种热成像伪彩模式, 支持拌线入侵、区域入侵, 支持火情探测等多种智能分析功能。支持远距离周界、海事、森林防火等使用场景。

Adopting a dual path design of visible light and thermal imaging, it provides an integrated video monitoring solution. Supports 18 thermal imaging pseudo color modes, supports line mixing intrusion, regional intrusion, and multiple intelligent analysis functions such as fire detection. Supports scenarios such as long-distance perimeter, maritime, and forest fire prevention.

### 技术指标 Technical Indicators

探测器像素Detector pixel	640×512
热成像镜头焦距Thermal imaging lens focal length	30mm~150mm
最大分辨率Maximum Resolution	2688×1520
可见光镜头焦距: Visible light lens focal length	10mm~860mm
可见光像素Visible light pixels	4 million pixels
8条巡航路线, 每条支持32个预置点	8 cruise routes, each supporting 32 preset points

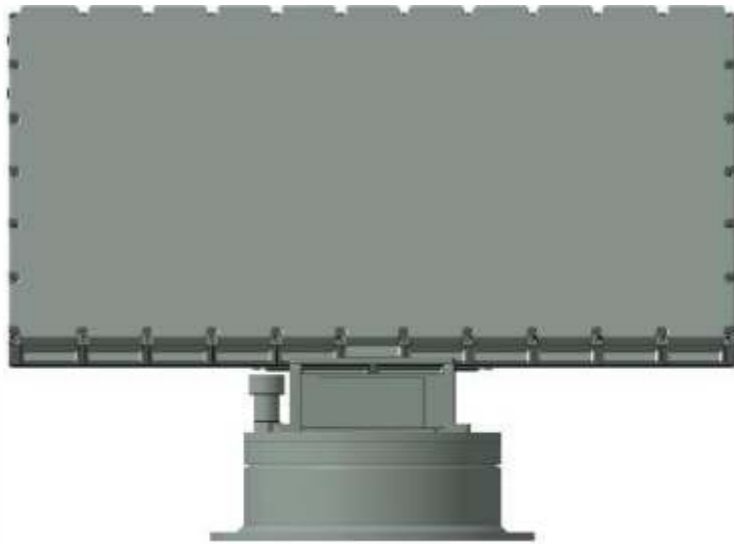


# “产品介绍” INTRODUCTION

## 低空探测雷达

LACR Low Altitude Coverage Radar

# LD3000



### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品”

WAVEFENG ALLIANCE CERTIFIED PRODUCTS

安防监视雷达主要用于边境、机场、军事基地等重点区域内无人机的探测、警戒和目标指示，能够准确的给出目标的航迹信息。

Security surveillance radar is mainly used for the detection, surveillance, and target indication of drones in key areas such as borders, airports, and military bases, and can accurately provide target trajectory information.

### 技术指标 Technical Indicators

频率范围	Frequency range	15.6-15.8 GHz
探测距离	Detection range	≥3KM
工作频段	Working frequency band	ku
距离盲区	Distance blind spot	<100m
方位范围	Azimuth range	360°
俯仰范围	Pitch range	30°
距离精度	Distance accuracy	10m
方位精度	azimuth accuracy	0.3°
测速精度	Speed measurement accuracy	1m/s

# YPI000

## 无人机导航诱骗设备

Drone navigation deception device

### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品”

WAVEFENG ALLIANCE CERTIFIED PRODUCTS

无人机导航诱骗设备采用先进的卫星导航模拟技术，产生发射导航诱骗信号，使无人机原地降落、驱离或者引导无人机定点降落。

The drone navigation deception device adopts advanced satellite navigation simulation technology to generate launch navigation deception signals, Make the drone land in place, drive it away, or guide it to land at a designated location.

### 技术指标 Technical Indicators

作用距离半径	Operating distance radius	500m~1000m
水平方向发射角度	Horizontal emission angle	360°
信号发射功率	Signal transmission power	≤10mW
响应时间	response time	< 3S



# “产品介绍” INTRODUCTION

## 手持式无人机定位设备 Handheld drone positioning equipment

# BX-D30

### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品” WAVEFENG ALLIANCE CERTIFIED PRODUCTS

可精准定位无人机和飞手（遥控器），通过对无人机信号的深度频谱分析及特征识别，可单机实现探测范围内无人机的序列号、型号、位置、速度、高度、航迹及飞手位置等多维信息的实时监测。

It can accurately locate drones and pilots (remote controllers), and through deep spectrum analysis and feature recognition of drone signals, it can achieve real-time monitoring of multidimensional information such as drone serial number, model, position, speed, altitude, trajectory, and pilot position within the detection range on a single machine.

### 技术指标 Technical Indicators

可定位无人机型号 Localizable drone models	DJY, Air, Mini, FPV, Avata and other models
侦测频段 Detection frequency band	2.4G、5.8G
定位范围 Positioning range	1-3KM
定位精度 Positioning accuracy	≤5m
定位刷新时间 Positioning refresh time	≤30s
整机尺寸 Size	186mm*86mm*21mm
续航时间 endurance	4H
整机重量 weight	505g



# F200

## 背包式查打一体化设备 Integrated backpack detection and jamming equipment

### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品” WAVEFENG ALLIANCE CERTIFIED PRODUCTS

内置无线电侦测模块，自动侦测无人机并预警提示，采用大功率反制模块，能应对各种无人机类型，采用插拔式电池设计，可随时更换电池，配置外接手柄操作，同时主机侧板也配置按钮开关操作，自动模式、手动模式，双重设计。

Equipped with a built-in radio detection module, it automatically detects drones and provides warning prompts. It adopts a high-power reverse control module, which can handle various types of drones. It adopts a plug-in battery design, which can replace the battery at any time. It is equipped with an external handle for operation. At the same time, the host side panel is also equipped with button switch operation, automatic mode and manual mode, with a dual design.

### 技术指标 Technical Indicators

侦测范围 Detection range	2380-2500MHz、5100-6000MHz
侦测距离 Detection distance	1-2KM
反制频段 Jamming frequency band	900M、1.5G、2.4G、5.2G、5.8G
反制距离 Jamming distance	1KM
整机尺寸 Size	400mm*230mm*630mm
整机重量 weight	16KG





# “产品介绍” INTRODUCTION

## 盾式无人机反制设备 Shield type Drone countermeasure equipment

### 产品介绍 Technical Indicators

- 1、采用超高频宽带无缝干扰技术。
  - 2、单频段双模块，干扰距离远。
  - 3、有效分段，只干扰无人机控制和视频传输频率，不会对其他的频率造成干扰。
- 1、 Use of UHF broadband seamless interference technology.
  - 2、 Single band dual module, interference distance is far.
  - 3、 Effective segmentation, only interfere with drone control and video transmission frequency, will not cause interference to other frequencies.



### 技术指标 Technical Indicators

工作频段	Frequency band	1.2G、1.5G、2.4G*2、5.2G*2、5.8G*2
反制距离	Jamming distance	1-3KM
尺寸	Size	430*430mm

# AMPLIFIER

## 无人机反制功放模块 Drone jamming amplifier module

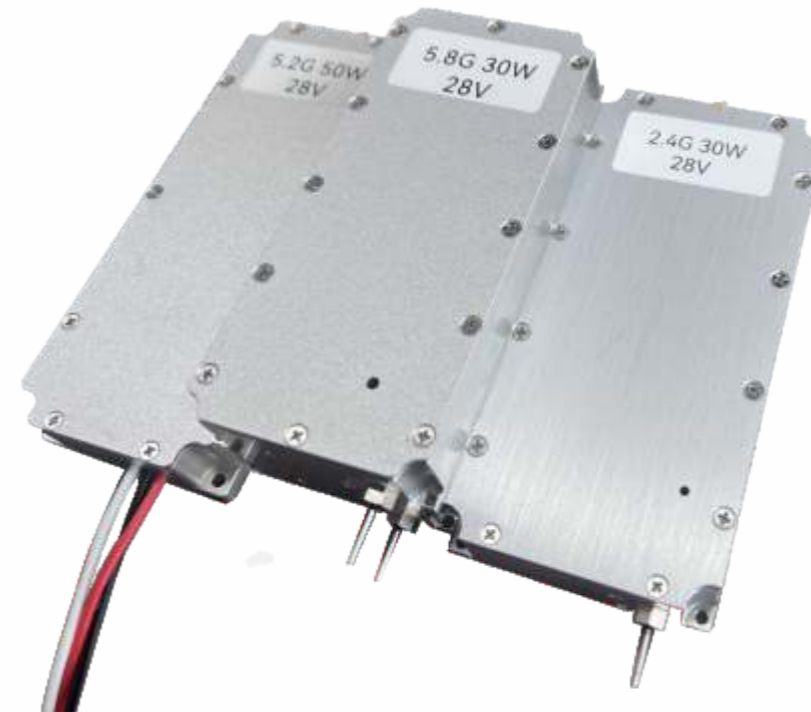
### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品” WAVEFENG ALLIANCE CERTIFIED PRODUCTS

性能稳定，强抗氧化，接收灵敏  
Stable performance, strong antioxidant properties, and sensitive reception

### 技术指标 Technical Indicators

频段	Frequency band	433M、800M、900M、1.2G、1.4G、1.5G、2.4G、5.2G、5.5G、5.8G
功率	Power	30W、50W、100W



# “产品介绍” INTRODUCTION

## 便携式无人机管制设备

Portable drone control equipment

# F100



### 产品介绍 Technical Indicators

## “武锋技术联盟认证产品”

WAVEFENG ALLIANCE CERTIFIED PRODUCTS

采用DSSS/FHSS双制式干扰源，全固态微波集成电路MMIC技术，频段多，针对无人机种类多，可应对各种场景，高密度SMT表面贴装工艺，可靠性高，可以适应严寒及高温环境下正常工作。

Adopting DSSS/FHSS dual standard interference source, all solid state microwave integrated circuit MMIC technology, with multiple frequency bands, suitable for various scenarios of unmanned aerial vehicles, high-density SMT surface mounting technology, high reliability, and can adapt to normal operation in harsh cold and high temperature environments.

### 技术指标 Technical Indicators

反制频段	Jamming frequency band	433M、900M、1.2G、1.5G、2.4G、5.2G、5.8G
反制距离	Jamming distance	1KM
整机尺寸	Size	730mm*150mm*300mm
整机重量	weight	4KG

# “实用案例”

CASE

