

DF-04 SDR Passive Drone Spectrum Finder Locks 300MHz-6GHz Emitters In 2 Seconds Over 3-5km Frontage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CE, FCC, ISO9001
- Model Number: DF-04
- Minimum Order Quantity: 2
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: L/C, T/T
- Supply Ability: 1000units per month

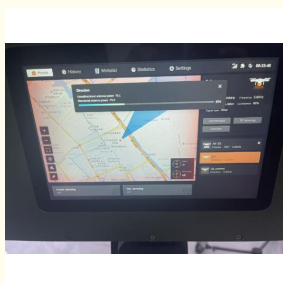


Product Specification

- Feature: Remote Control
- Working Band: 300MHz-6000MHz
- Range Of Radar: 3KM-5KM
- Azimuth Coverage: $\geq 90^\circ$
- Azimuth Accuracy: $\leq 1.0^\circ$
- Application: Public Places
- Transmission Frequency Band: 9 Bands
- Power: 600W
- Working System: Directional Antenna
- Effective Detection Range: 1KM-3KM
- Elevation Coverage: 360°
- Pitch Accuracy: $\leq 1.0^\circ$
- Highlight: passive RF drone spectrum finder, 2 second azimuth direction finding, multi target SDR detection unit



More Images



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Product Description

Listen-only by design. The DF-04 never transmits. It reads the drone link that is already in the air, converts it into a bearing, and hands the operator a target list — which keeps the site radio-quiet and the operator undetectable while monitoring is underway.

Inside the Detection Chain

01 — Wideband capture

The SDR front end scans the 300MHz-6GHz span in three switchable segments, so analogue FPV links and modern frequency-hopping control links arrive on the same receiver.

02 — Amplitude comparison

Paired antenna channels compare signal amplitude to derive the line of bearing, producing an azimuth fix at 1.0 degree accuracy rather than a bare signal alarm.

03 — Target roll-up

Identified emitters are held as parallel tracks and refreshed within 2 seconds, so several airframes stay visible in the list at once instead of overwriting each other.

Unit Overview





DF-04 is built for electromagnetic environments that ordinary threshold detectors cannot handle: broadcast towers, rail corridors, port radar and dense Wi-Fi all raise the noise floor, and the SDR architecture keeps separating drone emissions from that clutter. DID and RID payloads decoded from the link are reported alongside the bearing, giving the operator an airframe identity next to the direction instead of a direction alone.

Detection performance

Receiver architecture	SDR signal source, receive-only
Frequency coverage	300MHz-1000MHz / 1000MHz-3000MHz / 3000MHz-6000MHz, each segment customizable
Detection radius	3-5KM
DID & RID decoding range	3KM
Bearing accuracy	$\leq 1.0^{\circ}$ azimuth
Azimuth sector cover	$\geq 90^{\circ}$
Elevation sector cover	360°
Bearing method	Automatic direction finding by amplitude comparison
Track refresh	≤ 2 seconds, parallel multi-target

Per-SDR power rating	100W
1:1 link distance	1-2KM
Operating temperature	-40 to +55
Net weight	≤45kg

Where Operators Deploy It

Airport and stadium perimeters — bearing lines from a single unit already narrow the search sector, so patrol teams are dispatched by direction instead of by grid sweep.

Power hubs, refineries and substations — passive sensing suits sites where an active emitter would be prohibited, and RID decoding separates registered inspection flights from unknown traffic.

Event and convoy protection — multi-target tracking keeps several consumer drones in view during crowded low-altitude activity.

Spectrum survey duty — the same receiver doubles as a monitoring node when no drone threat is present.

About the Manufacturer

The DF-04 is produced by Chongqing Miao Yi Tang Technology Co., Ltd., a company established with a USD 12 million founding investment and built on cooperation with the IoT Research and Development Center of the Chinese Academy of Sciences and Sichuan University Zhisheng Software Co., Ltd. (002253). Its engineering work concentrates on AIoT cloud-plus-edge architectures that fuse electromagnetic, optoelectronic, visual and positional sensing into one intrusion picture for ground and low-altitude security.

Certifications





210021022464
170009020967



(2020) 国认监认字(275)号



中国认可
国际互认
检测
TESTING
CNAS L0653

报告编号: 公沪检202241970

检验检测报告

样品名称	手持无人机侦测反制设备
型号规格	DR300-1
受检单位	江西中科智鹏物联科技有限公司
检测类别	委托检测

国家安全防范报警系统产品质量检验检测中心(上海)
公安部安全防范报警系统产品质量监督检验测试中心



中国认可
国际互认
检测
TESTING
CNAS L0531

160021020992 (2019) 国认监认字 (Z74) 号
210020024472



公京检第 2206110199 号

检 验 报 告

产品名称: 智能周界防御系统

型号规格: DP200

受检单位: 江西中科智鹏物联科技有限公司

检验类别: 委托检验

报告日期 2022 年 7 月 11 日 [公 章]

国家安全防范报警系统产品质量检验检测中心 (北京)

公安部安全与警用电子产品质量检测中心
检验检测专用章



210021022464
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(2020)国认监认字(275)号



中国认可
国家互认
检测
TESTING
CNAS L0653

报告编号: 公沪检202244994

检验检测报告

样品名称	无人机侦测定位系统
型号规格	DR360
受检单位	江西中科智鹏物联科技有限公司
检测类别	委托检测



国家安全防范报警系统产品质量检验检测中心(上海)
公安部安全防范报警系统产品质量监督检验测试中心



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计算机软件著作权登记证书

证书号： 软著登字第11648415号

软件名称： 智慧园区资管系统
V1.0

著作权人： 江西中科智鹏物联科技有限公司

开发完成日期： 2023年02月10日

首次发表日期： 2023年02月11日

权利取得方式： 原始取得

权利范围： 全部权利

登记号： 2023SR1061242

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2023年09月14日

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证书号： 软著登字第11648412号

软件名称： 智慧人防网格化管理系统
V1.0

著作权人： 江西中科智鹏物联科技有限公司

开发完成日期： 2023年03月01日

首次发表日期： 2023年03月02日

权利取得方式： 原始取得

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登记号： 2023SR1061239

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2023年09月14日

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证书号： 软著登字第10447697号

软件名称： 双重预防机制系统
V1.0

著作权人： 江西中科智鹏物联科技有限公司

开发完成日期： 2022年04月13日

首次发表日期： 2022年04月19日

权利取得方式： 原始取得

权利范围： 全部权利

登记号： 2022SR1493498

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No. 11850514



2022年11月11日



Support After Delivery

Each unit ships with factory acceptance records and a band plan matching the buyer's electromagnetic survey. Our engineers stay reachable around the clock for troubleshooting, cover installation and commissioning either remotely or on site, and supply spare antenna and processing modules from stock. Custom band segmentation, RID output formats and integration into an existing command platform are quoted per project.

Technical parameters in this page are production values for the standard configuration; customized band segments and integration interfaces are confirmed at order review.



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