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# Drone Defense System Brochure



Shanghai Terjin Radio Technology Co., Ltd.

# TDOA Drone Defense Management Platform

## Product Profile

Drone Defense Management platform provides 7\*24 hours drone monitoring and early warning, identification and positioning, agile countermeasures, data statistics and system integration services. The platform is based on a cloud-native architecture and can be deployed in public clouds, private clouds or local servers according to customer needs.

User logs into the management console through a web page to obtain the identity information and flight trajectory of drones in the control area in real time. When an unwanted drone is found invading the protected area, the platform will intelligently assist in decision-making and link countermeasures to precisely strike it to make it fly away or make a forced landing.



## Features

### Remote operation

Supports multi-user, cross-terminal remote login and concurrent use.

### Visualized UI

Drone locating and tracking with visualized data analytics.

### Integrated management

Differentiated labeling of cooperative/non-cooperative targets.

### Big data analytics

Multi-dimensional statistical analysis of data.

### Multi-zone hierarchical defense

Customized multiple defense zones.

### Elasticity

Any number of terminals integration and data fusion.

### DJI and non-DJI

Mainstream, DIY, FPV, racing drones included

### Multi-target tracking

Can locate and track drone swarm.

### Intelligence and command in one

Situational awareness, intelligence analysis, decision-making assistance.

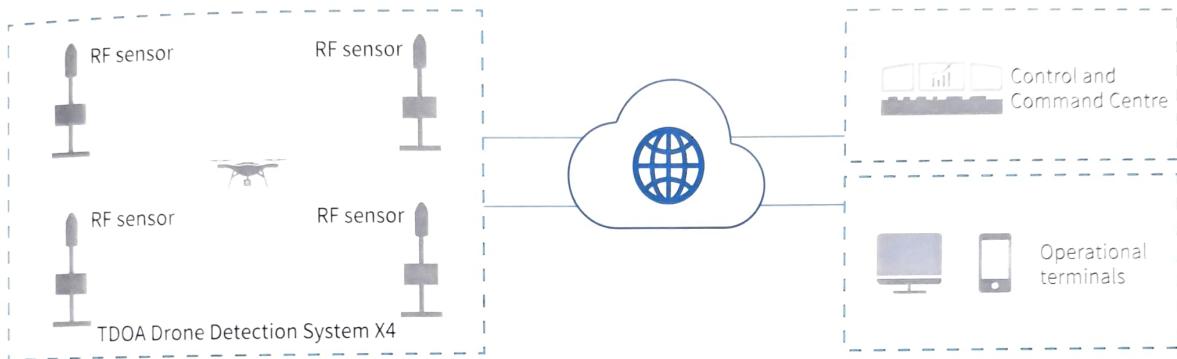
# TDOA X4 Drone Detection System

## Product Profile

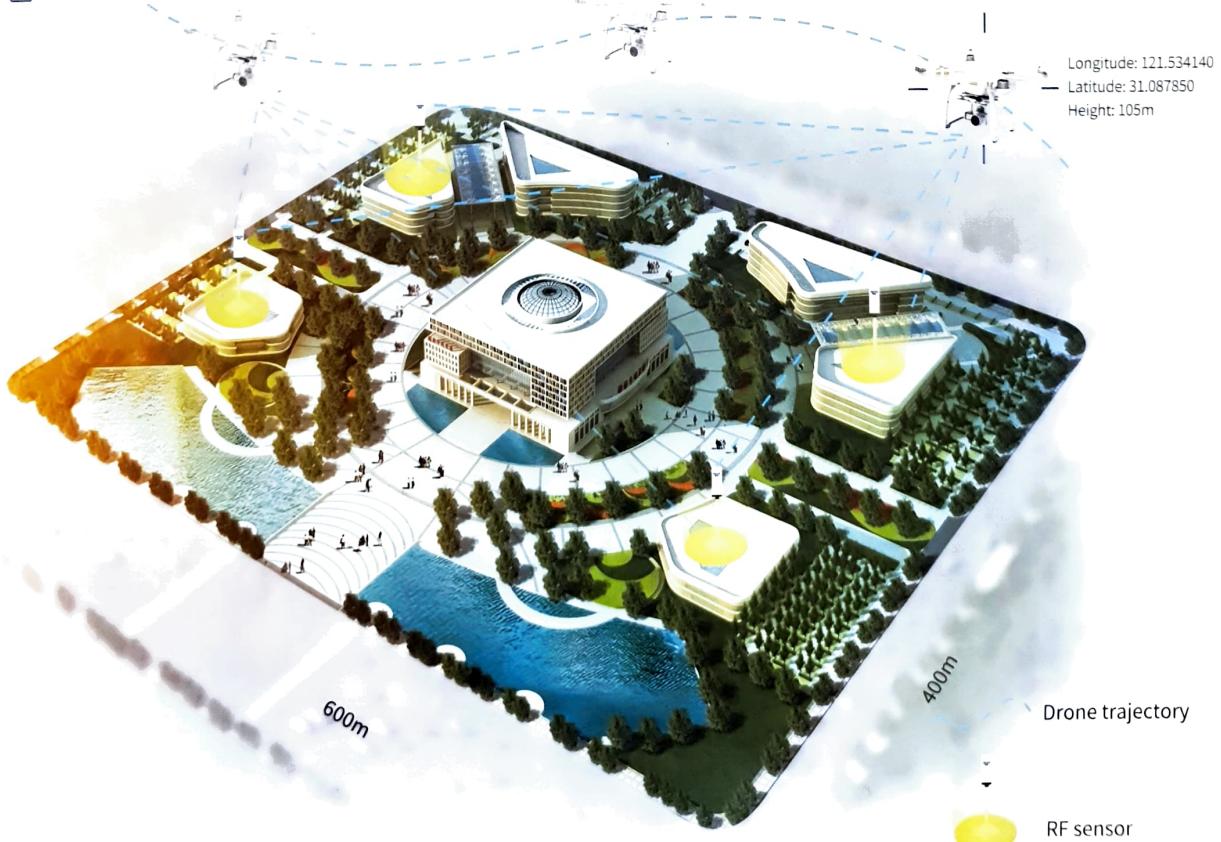
A standard TDOA X4 consists of 4 RF sensors and a management suite. The system is based on industry-leading RF sensing and TDOA positioning technology with functions such as drone detection and early warning, drone model identification, positioning, tracking and trajectory playback. It can freely expand to consist any number of RF sensors.

The RF sensors collect and recognize suspicious surrounding drone signals, and use the time differences between the signal of reaching different sensors to continuously locate and track the target.

## Typical System Architecture



## Typical System Deployment



## Features



### TDOA passive location

Passive detection technology,  
no signal emission, highly covert



### DJI and non-DJI

Various drone types,  
DJI series, Wifi, FPV etc.



### Wide coverage

4 sensors network  
covers 4 - 15km<sup>2</sup>



### Super-wide spectrum coverage

Coverage 100MHz - 6GHz



### Black and white list

Able to identify cooperative  
and non-cooperative drones



### Drone swarm tracking

Support multiple targets  
positioning with independent  
real-time trajectory displaying

## Specifications

### Work mode

Passive TDOA positioning

### Targets

Drone image-transmission  
signal

### Frequency

100MHz-6GHz

### Positioning error

~20m

### Number of targets

10+ (simultaneously)

### False alarm rate

<once per day

### Coverage

4 sensors network covers  
4 - 15km<sup>2</sup>



## Application Scenarios

Suitable for lower airspace protection of  
governmental and military venues, major  
events, confidential facilities, chemical  
and petrol parks, airports, border control  
etc.



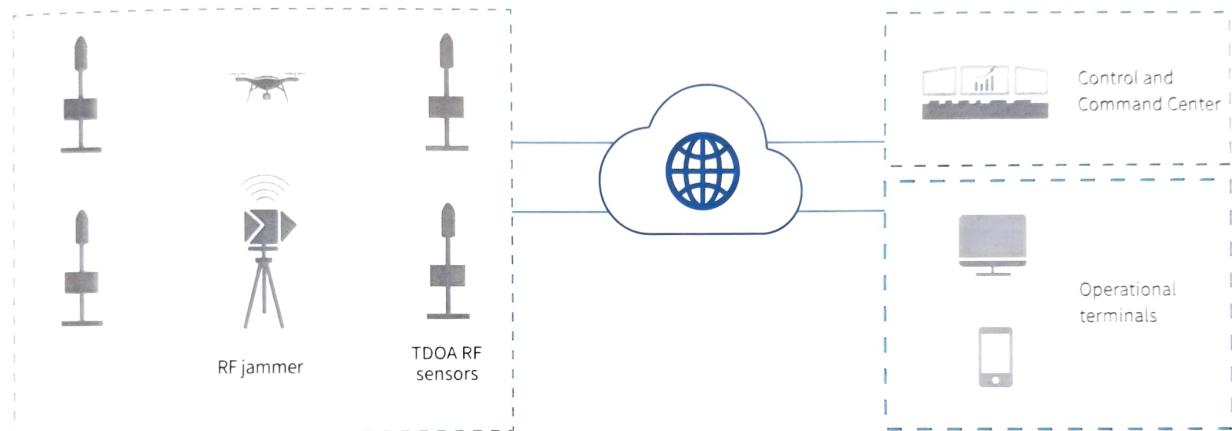
# TDOA X5 Drone Defense System

## Product Profile

A standard X5 DDS consists of 4 RF sensors, 1 RF jammer and a management suite . The system features UAV detection and identification, location, tracking and countermeasure. It is highly scalable to freely expand to consist any number of TDOA RF sensors and radio jammers.

The system can detect and identify drone signals. Multiple RF sensors can be networked flexibly to locate the signal source via TDOA algorithm. Based on the location results, the system autonomously links one or more radio jammers to automatically transmit jamming signals to effectively cut off the drone's communication command or navigation link, thus drive away or force it to ground.

## Typical Configuration



## Typical Deployment Diagram



## Features

### Six-in-one

Drone detection, classification, location, tracking, countermeasure, strategy planning.

### Autonomy

Autonomously links detection to countermeasure, few artificial intervention required.

### Mega area

Can network to seamlessly cover a mega city.

### TDOA passive RF detection

Passive technology, no signal emission, highly covert.

### Able to ID DIY drones

Able to identify DJI and non-DJI drones with low false alarm rate.

### Whitelist and blacklist

Able to ID cooperative drones and uncooperative ones.

### Multi targets

Multiple drone targets identification, tracking and countermeasure with realtime drone trajectory displaying.

### Super-wide spectrum

Spectrum coverage 100MHz ~ 6GHz.

### Multi-layer defense strategy

Multiple defense layers customizable.

## Specifications

### Detection

#### Work mode

Passive TDOA RF detection and location

#### Targets

Drone image-transmission link

#### Frequency

100MHz-6GHz

#### Location precision

~20m

#### Number of targets

≥ 10 (Simultaneously)

#### False alarm rate

<1 time/day

#### Coverage

4 sensors network covers 4-15 km<sup>2</sup>  
(Varies due to drone models and environment)

### Countermeasure

#### Work mode

RF jamming

#### Targets

Control and GNSS signals

#### Frequency

Typical drone frequency, including 900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 5.8GHz

#### Coverage

1 jammer covers 1-5 km<sup>2</sup>  
(Varies due to drone models and environment)

#### Time to response

4s

## Application scenarios

Critical facilities, major events, petrochemical parks, railways, border control.

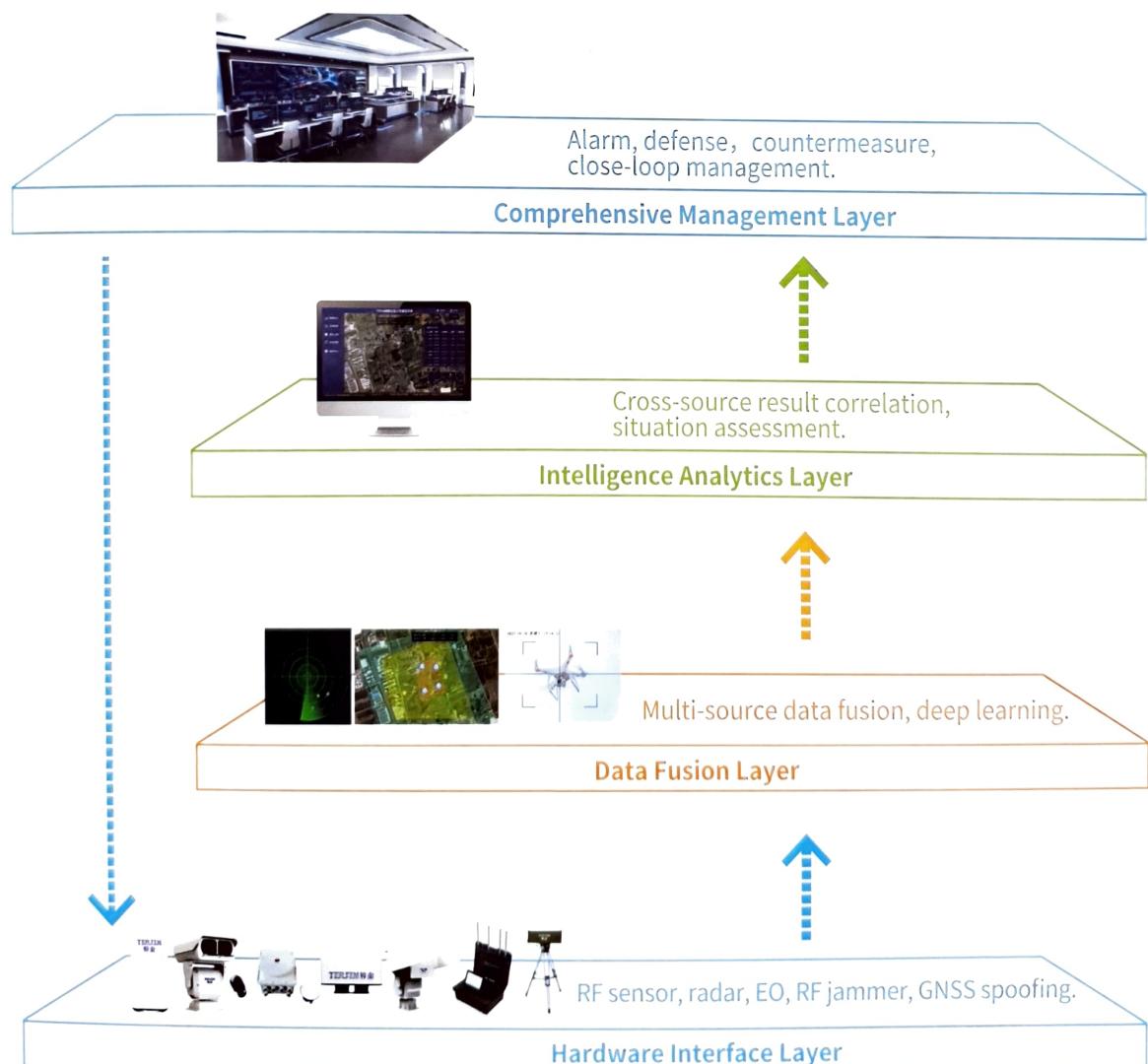
# TDOA Multi-layered Drone Defense System

## Product Profile

Comprehensive use of various technologies including passive RF sensing, radar, electro-optic, RF jamming, GNSS spoofing etc. to detect, discover, position, track and dispose unwanted drones, thus form a comprehensive multi-layered lower airspace defense system.

Based on TDOA passive RF sensing, supplemented by radar, photoelectric technologies, the system monitors lower airspace targets in realtime. After identifying and locking the target, it can automatically link radio jammers or GNSS spoofing devices to dispose the target.

## System Architecture



# TDOA City-scale Networking Drone Management System

## Product Profile

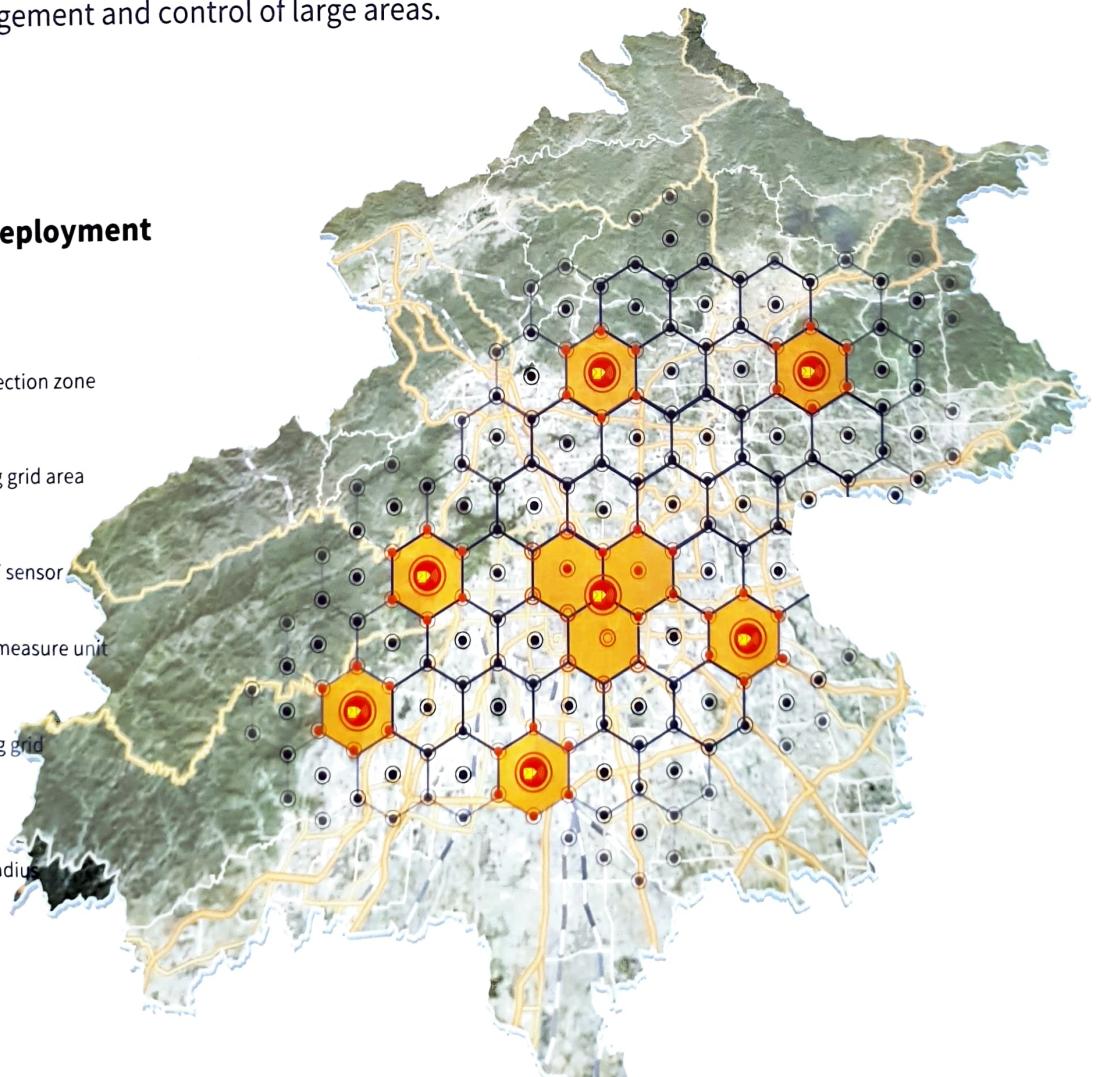
The system can be used as a new type of infrastructure for urban airspace management. Through smooth expansion, it can monitor and manage city-scale large area 24/7 to ensure safety and order of urban lower airspace.

Deploy a number of smart RF sensors across a large area, multiple adjacent sensors can network to form a sensing grid. Many such sensing grids then converge into a city-scale lower airspace monitoring network.

The system can flexibly set up multiple key protection zones. The detection, recognition and long-distance early warning of drones are realized through sensing nodes, the precise positioning of targets is realized based on TDOA algorithm. The two major advantages of the system "information sharing" and "data fusion" are fully utilized to continuously track and lock targets across regions. In order to prevent unwanted drones trying to break into the key protected zones, the system quickly links countermeasure units to handle targets to achieve efficient management and control of large areas.

## Typical Deployment

- Key protection zone
- A sensing grid area
- Smart RF sensor
- Countermeasure unit
- A sensing grid
- 1-2km radius



# TDOA X1A

## Drone Detection Equipment

### Product Profile

A single X1A can independently detect and identify drones. Multiple X1As can network to precisely locate the trajectories of drones based on TDOA algorithm. X1A collects surrounding radio signals and sorts drone signals out via AI technology. When a drone signal is identified as coming from an unwanted source, the platform will automatically alert security to take measures.

### Features

<b>Passive detection</b>	Passive detection technology, no signal emission, highly covert
<b>Super-wide spectrum monitoring</b>	Frequency coverage 100MHz - 6 GHz, real-time spectrum analysis
<b>DJI and non-DJI</b>	DJI, DIY,WIFI,FPV, racing drone models included
<b>TDOA -based positioning</b>	Multiple X1As can network to locate drones
<b>Low false alarm rate</b>	Average false alarm rate < once per day
<b>Explosion-proof design</b>	State certified explosion-proof design with rugged architecture

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### Specifications

<b>Work mode</b>	RF sensing
<b>Detection target</b>	Drone image-transmission signal
<b>Frequency</b>	100MHz - 6GHz
<b>Range</b>	Urban environment 1 - 5 km (Variation due to environment and drone model)
<b>Target number (simultaneously)</b>	10+
<b>Protection grade</b>	Non-explosion-proof version:IP67 Explosion-proof version:IP68
<b>Explosion-proof mark</b>	Ex d[ia Ga] IIL T6 GB/Ex tD A21 IP68 T80° (Explosion-proof version)

# TDOA X1B-mini Drone Detector

## Overview

X1B-mini is a miniaturized TDOA drone detection and location equipment which provides a targeted solution to the problems of drone monitoring blind spots and near-ground target detection. A single X1B-mini detects and identifies multiple targets (including FPVs). Multiple X1B-minis can network to accurately locate and track the trajectories of drones. It can be flexibly deployed on infrastructure such as traffic signal poles, cellular communication masts, and street lamp poles. It can also be networked with other TDOA detectors such as X1Bs and X1Ds to form a city-wide large-scale drone monitoring network.

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35cm

## Specifications

Work Mode	RF, TDOA
Target	Drone control and video-transmission link
Frequency	100MHz - 6GHz
Range	0.5 - 2km radius (varies due to different working condition)
Target number	~5 concurrent
Dimension	185mm*185mm*350mm
Weight	≤5kg
Protection grade	IP65
Work temperature	-30°C~65°C

## Features

- Networking** | Multiple devices networking to conduct TDOA location
- Passive** | Passive detection, no signal emission, environment friendly
- DJI and non-DJI** | Detects 600+ drone models, FPVs included
- Whitelist/ Blacklist** | Classifies "friend" from "foe"
- Blind zone coverage** | Able to cover areas that are otherwise difficult to cover
- City-wide** | Supports large quantity nodes networking for city-wide coverage
- Flexible deployment** | Supports deployment to various different facilities
- Power supply** | POE/Solar optional

## Scenarios



Drone monitoring for scenarios such as city-wide coverage, industrial parks, major event venues, airports, railways etc.

# X1C Drone Detection Equipment

## Overview

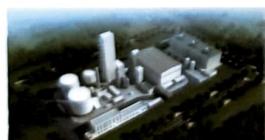
X1C is a stationary device for drone detection and location. Through radio spectrum big data analytics, it identifies drone model, S/N code, coordinates (longitude, latitude, altitude) as well as pilot coordinates.

It works independently offline or with multiple devices networking to cover a larger area. It can be interconnected with drone neutralization equipment such as radio jammers, GNSS spoofers etc.

## Specifications

<b>Work mode</b>	Radio frequency
<b>Detection target</b>	Drone image-transmission and control signals
<b>Drone frequency</b>	900MHz、1.2GHz、2.4GHz、5.2GHz、5.8GHz
<b>Range</b>	1-10km (Varies due to environment and drone model)
<b>Swarm detection</b>	~10 (concurrent)
<b>Location error</b>	~10m
<b>Protection grade</b>	IP65
<b>Work temperature</b>	-20~65°C
<b>Dimension</b>	L*W*H: 513mm*462mm*187mm
<b>Weight</b>	~30kg

## Scenarios



Drone threats mitigation for airports, critical industrial facilities, major event venues etc.



## Features

- Not just DJI** | DJI, Autel as well as homemade, FPV, WiFi drone models
- Location** | Locates drones and pilots
- Drone ID** | Identifies drone S/N
- Black and whitelist** | Classifies "friend" and "foe"
- Networking** | Multiple devices can network to cover a larger area
- Drone tracking** | Tracks multiple drone flight trajectories simultaneously
- Detection and neutralization linkage** | Can interconnect with drone neutralization equipment
- Full protection** | Full-time, all-weather, no blind-zone

Note: Feature [1][2][3][4] only work to certain drone models, for more details please refer to specs document.

# X1D

## TDOA+AOA Drone Detector



### Overview

X1D is a drone detector with drone intrusion alarm, identification, direction-finding and networking location capabilities. One signal device detects and finds drone direction. Multiple X1Ds network to locate drones via TDOA (time difference of arrival) algorithm. It emits no signal which makes it interference-free and suitable for urban environment.

### Specifications

Frequency	100MHz~6GHz
Azimuth error	~10°
Detection range	2~5km (Varies due to environment and drone model)
Direction-finding range	2~3km (Varies due to environment and drone model)
Dimension	Φ*H: (420*530)±10mm
Weight	~15kg
Protection grade	IP65
Work temperature	-30°C~65°C

### Features

<b>Drone location</b>	Multiple X1Ds network to locate drones
<b>Direction-finding</b>	Single X1D finds drone direction
<b>Drone model identification</b>	Able to identify mainstream drones as well as FPV, DIY
<b>Spectrum monitoring</b>	Able to scan signal within 100MHz - 6GHz
<b>Jamming interconnection</b>	Able to link with jammers for automatic jamming
<b>Networking</b>	Able to scale up via networking

### Scenarios



Drone threat monitoring for critical facilities, industrial compounds, airports etc.

# RD1

## Drone RID Reader



### Overview

RD1 is a drone remote ID (RID) broadcasting signal reader. It monitors drone flight information such as SN, model, coordinates (latitude, longitude), velocity, altitude etc. based on decoding the broadcasting RID signal. It's suitable for cooperative drone monitoring for various scenarios such as airports, railways, industrial compounds, major event venues etc.

### Specifications

<b>Work mode</b>	RID receiving and decoding
<b>Range</b> [1]	1-2 km (radius)
<b>Response time</b> [2]	2- 3s
<b>Swarm monitoring</b>	~10 concurrent
<b>Dimension</b>	L*W*H: (385mm*307mm*204mm)
<b>Weight</b>	~15kg
<b>Protection grade</b>	IP65
<b>Work temperature</b>	-30°C~65°C

Note: [1][2] only works to drones with RID transmission

### Features

- Drone location** | Monitor and display drone location as well as flight path
- Pilot location** | Monitor and display controller location
- Multiple targets** | Monitors multiple targets simultaneously
- Linkage** | Able to link with drone jammers for automatic threat neutralization
- City-wide** | Supports large quantity nodes networking for city-wide coverage
- Protocols** | Bluetooth 4/5, WiFi Beacon/NAN
- Standards** | GB 42590-2023, ASTM F3411 Remote ID, ASD-STAN prEN 4709-002

### Scenarios



Drone monitoring for various scenarios such as airports, railways, industrial compounds, major event venues etc.

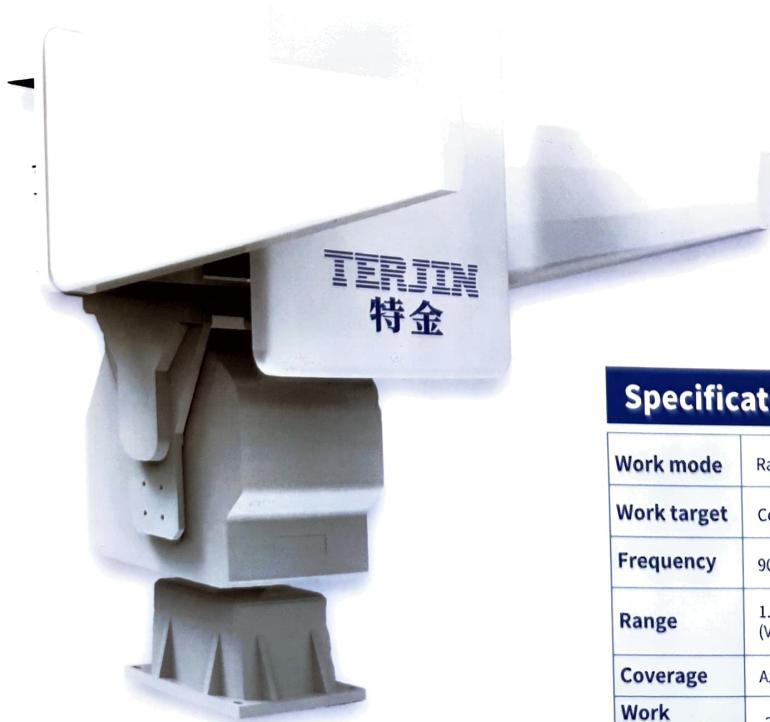
# RF-120D Fixed-frequency Drone Jammer

## Product Profile //

This equipment is used to drive away or force to ground of unwanted drones. It is based on the mechanism of radio interference and jamming. It performs targeted and precise strikes on unwanted drones, effectively cutting off the drone's communication and navigation link, and forcing it to fly back or make a forced landing, thereby ensuring the lower airspace safety of the controlled area. (Please note that permission from authority is required to conduct radio jamming).

## Features //

- Independent or simultaneously radio jamming** with typical drone frequency such as 900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 5.8GHz.
- Long effective range** 1.5 - 3 km effective (Variation due to environment and drone model)
- Fast response** Response time <4s
- Linkage with drone detection network** Able to link with drone detection network to autonomously provide continuous counter-strike
- Low collateral interference** Concentrated emission with low collateral interference to the environment



## Specifications //

<b>Work mode</b>	Radio jamming
<b>Work target</b>	Control, navigation signal
<b>Frequency</b>	900MHz, 1.2GHz, 1.5GHz, 2.4GHz, 5.8GHz
<b>Range</b>	1.5 - 3 km (Variation due to environment and drone model)
<b>Coverage</b>	Azimuth 0°- 360°, vertical -30° - 60°
<b>Work temperature</b>	-20°C - 55°C

# ND10

## GNSS Spoofing Drone Defense Equipment



### Overview

ND10 generates falsified satellite signal to spoof on the drone's navigation link, forcing it to be unable to fly according to its original track and guiding it to the specified direction. It denies drones from entry of certain airspace, conducts directional expulsion, ensuring the safety of the low-altitude airspace of the protected area. ND10 is certified by the SRTC. It is suitable for drone defense for scenarios such as major economic targets, railways, power plants, petrochemical parks and major event venues etc.

### Specifications

Work mode	GNSS spoofing
Coverage	≤500m (radius)
Frequency	GPS L1、GLONASS L1
Signal strength	≤10dBm (adjustable)
Targets	~10 (concurrent)
Power consumption	≤30W
Weight	~20kg
Protection grade	IP65
Work temperature	-40~70°C

### Features

- Directional expulsion** | Up to 8 directions of expulsion
- Autonomy** | 24/7 autonomous operation
- Swarms** | Able to tackle multiple targets simultaneously
- Adjustable** | Adjustable signal strength
- Linkage** | Able to link with drone detection and location system
- Fast response** | Able to handle drone intrusion within 3s

### Scenarios



Drone defense for major events venues, railways, power plants, petrochemical parks, public facilities etc.

# H1C Briefcase-style Drone Detector

## Product Overview

H1C portable drone detector is a briefcase style drone detection device for drone monitoring.

It is used for monitoring drone information such as SN code, model, location (longitude/latitude, azimuth, distance), speed, height, altitude, home spot, controller location(longitude/latitude, azimuth, distance) etc. H1C works offline or online (optional). It is easy to carry, deploy, and use via touch screen.

## Features

- Drone detection** | Detect various drones including DJI, WiFi, FPV models
- Controller location** | Locate controller (pilot) (long./lat.)
- Drone location** | Locate drones (long./lat./height)
- Sole ID<sup>[1]</sup>** | Unique drone SN code
- Trajectory tracking** | Real time display of drone trajectories
- Block and white list** | Able to identify and tag "friend" and "foe"
- Multiple devices networking** | Multiple devices networked to cover large area
- Touch screen operation** | Touch screen for easy operation
- Instant On** | Ready to use in seconds
- Highly portable** | Briefcase style, easy to carry



<sup>[1][2][3][4][5]</sup>only apply to certain drone models., see specs document for details

## Specifications

## Scenarios



Suitable for drone monitoring in public security, emergency response, secret service, counter terrorism, and critical infrastructure protection etc.

### Work mode

RF sensing

### Frequency

900MHz、1.2GHz、2.4GHz、5.2GHz、5.8GHz

### Swarm detection

~5 concurrent drones

### Range

1-10km (varies due to environment and drone model)

### Dimension

L\*W\*H: 520mm\*415mm\*224mm

### Battery time

~ 4 hours (running at 20°C)

### Work temperature range

-20°C~65°C

### Waterproof rating

IP65 (Case closed)

# H1D Handheld Drone Detection Jamming Integrated

## Overview

H1D is a handheld device for drone detection and neutralization. Through radio sensing and jamming technologies, it detects and identifies commercial drones, as well as finds drone direction, locates drones and pilots and jams drone signals. It comes with a screen to display real-time drone information. H1D works independently offline or with multiple devices networking to cover a larger area. It's able to transmit its location back to a management platform.



## Specifications - Detection

Work mode	Radio frequency
Drone frequency	900MHz, 1.4GHz, 2.4GHz, 5.2GHz, 5.8GHz
Range	1-1.5km (Varies due to environment and drone model)
Azimuth error	20° (RMS)
Battery run time	~6h

## Specifications - Jamming

Work mode	Radio jamming
Target	Remote control and GNSS signal
Jamming frequency	900MHz, 1.5GHz, 2.4GHz, 5.2GHz, 5.8GHz
Range	~1km (Varies due to environment and drone model)

## Mechanics

Dimension	L*W*H:(850mm*292mm*88mm)±5mm
Weight	~5.5kg

## Features

- Detection and neutralization integrated** | Drone detection and signal jamming in one device
- Not just DJI** | DJI, Autel as well as FPV, WiFi, homemade drone models
- Detection and direction-finding** | Graphical interface of displaying drone direction
- Screen display** | Foldable screen for graphical display of drone information
- Device location** | Able to transmit device location to the platform
- Mission on the move** | Easy to carry for mission on the move

## Scenarios



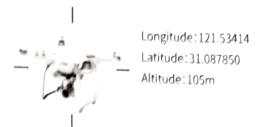
Drone threats mitigation for critical security tasks, major events, daily patrols etc.

# D2C Drone Detection Jamming Integrated

## Overview

D2C is an integrated device featuring drone detection, identification, pilot location and jamming based on radio sensing and suppression.

D2C can extend to 13 jamming frequency bands with an extra JM1 jamming module. Different bands can be controlled separately or combined.



## D2C Specifications – Detection

<b>Work mode</b>	Passive radio frequency, no signal emission
<b>Target</b>	Drone image-transmission signal
<b>Range</b>	1 – 5km (Varies due to environment and drone model)
<b>Drone frequency</b>	100MHz-6GHz
<b>Location error</b>	~ 10m
<b>Swarm detection</b>	~ 10 drones (concurrent)

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## D2C Specifications – Jamming

<b>Work mode</b>	Radio jamming
<b>Targets</b>	Drone control and/or navigation signals
<b>Range</b>	1 – 2km (Varies due to environment and drone model)
<b>Jamming frequency</b>	900MHz、1.5GHz、2.4GHz、5.2GHz、5.8GHz
<b>Jamming mode</b>	Omnidirectional/Directional
<b>Dimension</b>	Φ*H:600mm*420mm
<b>Weight</b>	~30kg (Excluding power supply)

## JM1 Specifications (optional accessory)

<b>extensional bands</b>	433MHz、840MHz、915MHz、1.1GHz、1.2GHz、1.4GHz、1.8GHz、5.5GHz
<b>Range</b>	1 – 2km
<b>Dimension</b>	L*W*H(399mm*339mm*164mm)±5mm
<b>Weight</b>	≤22kg

## Scenarios



Drone threats mitigation in major events, security patrol, VIP travel, boarder control, civil and military compounds etc.

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**Shanghai Terjin Radio Technology Co., Ltd.**

 [en.terjin.com](http://en.terjin.com)

 +86 021 6855 5587   +86 177 2836 9605 (WhatsApp/Wechat/Telegram)

 Building 12, No.1188 Lianhang Road, Minhang District, Shanghai

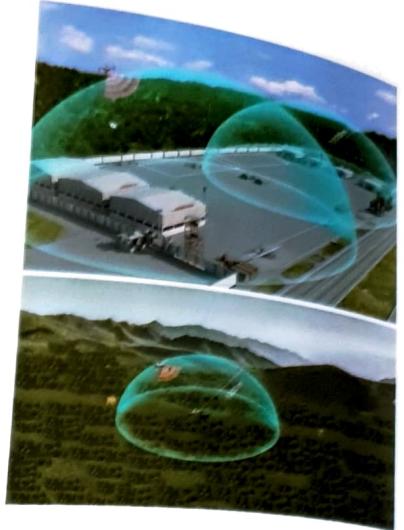


[Homepage](http://en.terjin.com)



# **SPECIAL PRODUCT MANUAL**

# Introduction to AEW-4 Anti-UAV Dome Defense Equipment »



The equipment is used for the protection of important targets on the battlefield, and can be widely used for the protection of military targets such as infantry positions, artillery positions, radars, tanks, troop carriers, command posts, ammunition depots, logistics warehouses, airports & communication sites. The device can automatically detect UAVs approaching the target area and automatically activate the radio jamming module that comes with the device to jam the UAVs and prevent them from entering the protective area of target, thus forming a dome of protective barriers centered on the target to protect it from UAV attacks.

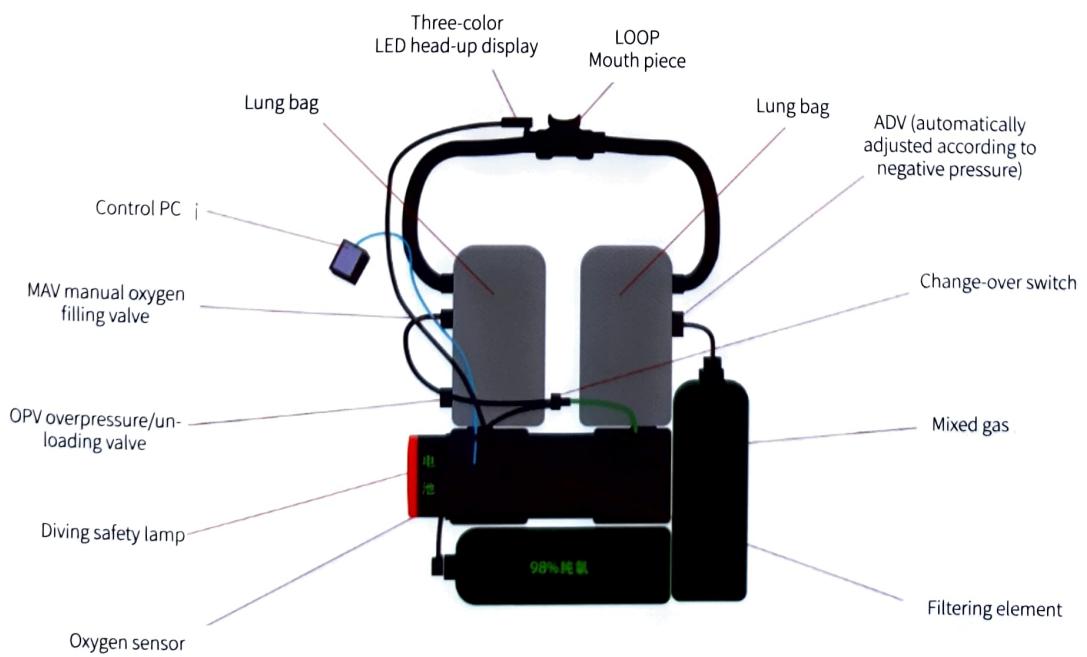
## Performance Indicators of the Device

Operating frequency range	0.3~5.8GHz band;
Dome protection radius	>1000m
Correct identification rate of UAV in traditional frequency band	>99%
Correct recognition rate of UAV in non-traditional frequency band	>80%
Size of principal machine	405*400*203mm
Size of integrated antenna mounting plate	510*510mm
Max. height of the integrated antenna	<305mm
Weight of principal machine	<25Kg
Weight of integrated antenna	<4Kg
Max. power consumption	<350W
Device power supply	DC 24V
Power supply options	Battery pack or 220V power adapter

# Closed Circuit Rebreather »



## ● Product Structure and Principle:



## Technical Index

Working mode	Fully-closed (pure oxygen, air, mixed gas) Semi-closed (pure oxygen, high oxygen, mixer) temperature range
Net weight	6.5KG, excluding gas cylinder
Total weight	12KG (carbon fiber gas cylinder) 13.5KG (aluminum alloy gas cylinder)
Gas cylinder type	2L aluminum alloy gas cylinder or 2L carbon fiber gas cylinder
Gas cylinder weight	2L aluminum alloy gas cylinder 3KG/2L carbon fiber gas cylinder 1.6KG
Lung bag volume	6L (3.0L each side)
Lung bag structure	Double lung bags (inhalation and exhalation separation) with waterproof tubes
Breathing circuit	Default: DSV (on-demand supply valve) optional; (full face mask)
Joining methods	Thread locking
Engineering indicator light	Three colors (green: normal; yellow: attention; red: alarm)
Adsorbent canister design	Can be closed in combat environment
Type of adsorbent	Drum, axial adsorption
Adsorbent filling amount	Chemical particles (sofinolime 797 particle size: 1.0-2.5MM)
Battery type	Microporous adsorbing material
Maximum operable depth	Chemical particles: 2.2kg
Limiting operation temperature range	Microporous adsorbing material: 2.3kg
Conventional operation temperature range	Lithium battery
Type of oxygen sensor	Pure oxygen mode: 7m; Air mode: 58m; Mixed gas mode: 100m (EN13319)
Number of oxygen sensors	-20°C-50°C
Oxygen partial pressure setting range	5°C-30°C
Water accumulator	Chemical energy sensor
Control terminal	4 pcs.
Control terminal display type	2 pcs.
Control terminal decompression operation model	1 pc.
Language of control terminal	OLED
Control terminal electronic compass	NDL, Bühlmann ZHL-16c, Ratio Deco 1.0
Mount system	Chinese
Accessory system	3D compass
	High-strength nylon buckle, with function of quick release
	Moer tactical attachment mount system

# **AD800 »**

## **turntable -type full-band reconnaissance, jamming and deception integration equipment**



The "Fortress" turntable -type full-band reconnaissance, jamming and deception integration equipment adopts the "mechanical scanning, reconnaissance and jamming integrated system". It is mainly composed of antenna components, continuous rotating turntable, integrated host for reconnaissance, jamming and deception, and control terminal, and is able to detect and against low-slow-small drones and tactical drones, and can be applied to land-based, vehicle-mounted & ship-mounted platforms.

### **The main features of the equipment are as follows:**

- Full-band, fully-automatic reconnaissance, direction finding, jamming, and deception capabilities.
- Intelligent linkage of reconnaissance, jamming and deception, self-contained system, external guidance is not required;.
- Multiple drone strike strategies are built-in and the system operates unattended.
- Nx360° continuous rotation, precise tracking to aim at the target or develop airspace.
- All-in-one compact design could meet the tight space applications.
- Wide temperature adaptation & high protection level can meet the harsh environment applications.

**AD80 »**

## **Knapsack reconnaissance jamming anti-drone equipment**



### ● Use

The Desert Eagle anti-UAV interference detection backpack equipment integrates UAV detection and deterrence, and has the functional characteristics of integration of exploration and attack. The device identifies and decodes through the radio frequency scanning function, detects illegally invaded drones, and can notice and capture the control signal and image transmission signal between the drone and the remote control. And through the electromagnetic holding technology, the remote control road, map transmission channels, navigation signals are comprehensively interfered with and blocked, forcing the UAV to return or land; It has a decentralized navigation function that can drive away drones. The device supports the operation of single device and network structure, and has the characteristics of high integrity, good flexibility and strong integration.

The device includes a host backpack part and a hand-held antenna part, and the two parts are connected by a wire and cable bundle. The device has a wearable backload, standby reconnaissance, direction finding interference and other working modes.

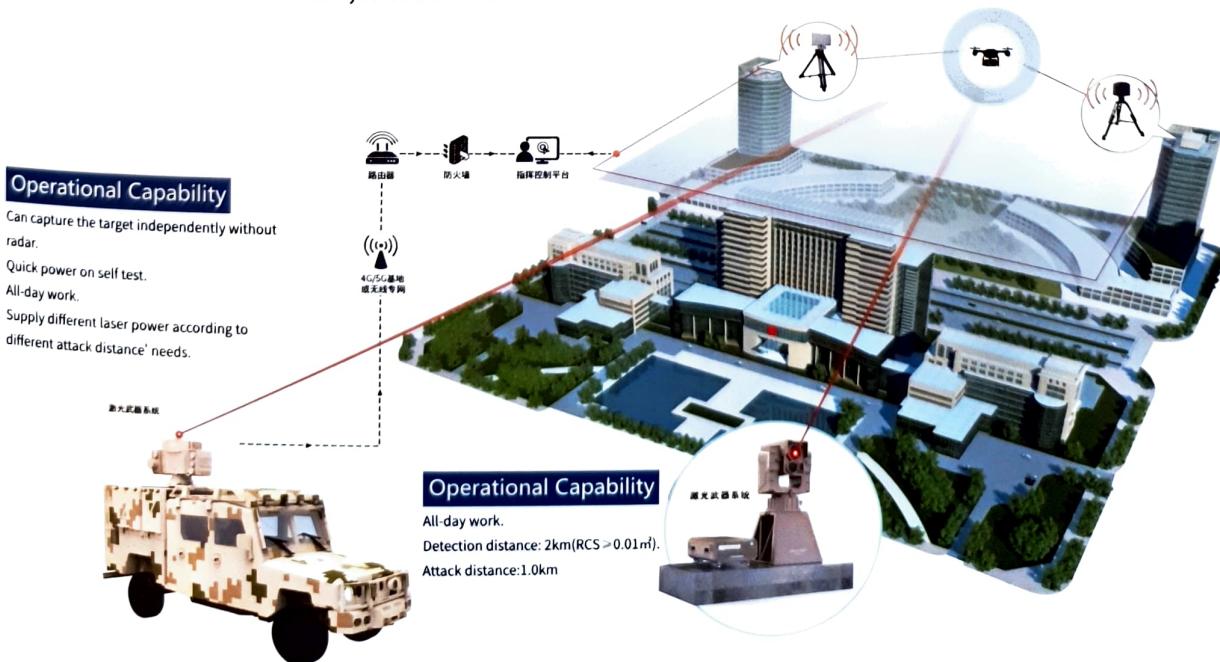
# AE-400 vehicle-mounted laser weapon system ➤

Item	Standard Indexes
Laser Power	3.5kw~12kw
Maximum Attack Time	120s/Battery Power(according to need),Continuous/Urban Power
Work Airspace	Pitch Angle:-5°~65°;Azimuth Angle:360°
Maximum Attack Distance	1.0km~2.0km

- Used to counterattack of "low altitude, slow speed and small size" aircraft, it can meets the short- range defense requirements of police, security and anti-terrorist, and has the capabilities of rapid mobility, self-defense system, detection and attack during moving.

## Application Environment

- Eligible to the city's complex electromagnetic and illumination condition.
- Eligible to extreme weather such as snow, sand, mould, thunder and lightning.
- Eligible to 3000m altitude.
- Working environment temperature:-20°C-50°C.
- Storage environment temperature:-25°C-55°C.
- Solar irradiance: 1120W/m<sup>2</sup>(4h at least).
- Wind resistance level: $\geqslant$ level 5; IP level: IP65





E-mail: [aee@aee.com](mailto:aee@aee.com)