

LZ Anti Drone

To protect your air!

LZ Core Technologies

A neural network is used to extensively extract signal features to achieve recognition of UAV signals, IDs, and other functions that do not depend on the special design of the transmitting signal, and the range of signal features that can be extracted and utilized is much larger.

- Signal Recognition
- Fingerprint Enhancement
- Spectrum Awareness
- Model additions

Radio Frequency Machine Learning (RFML)

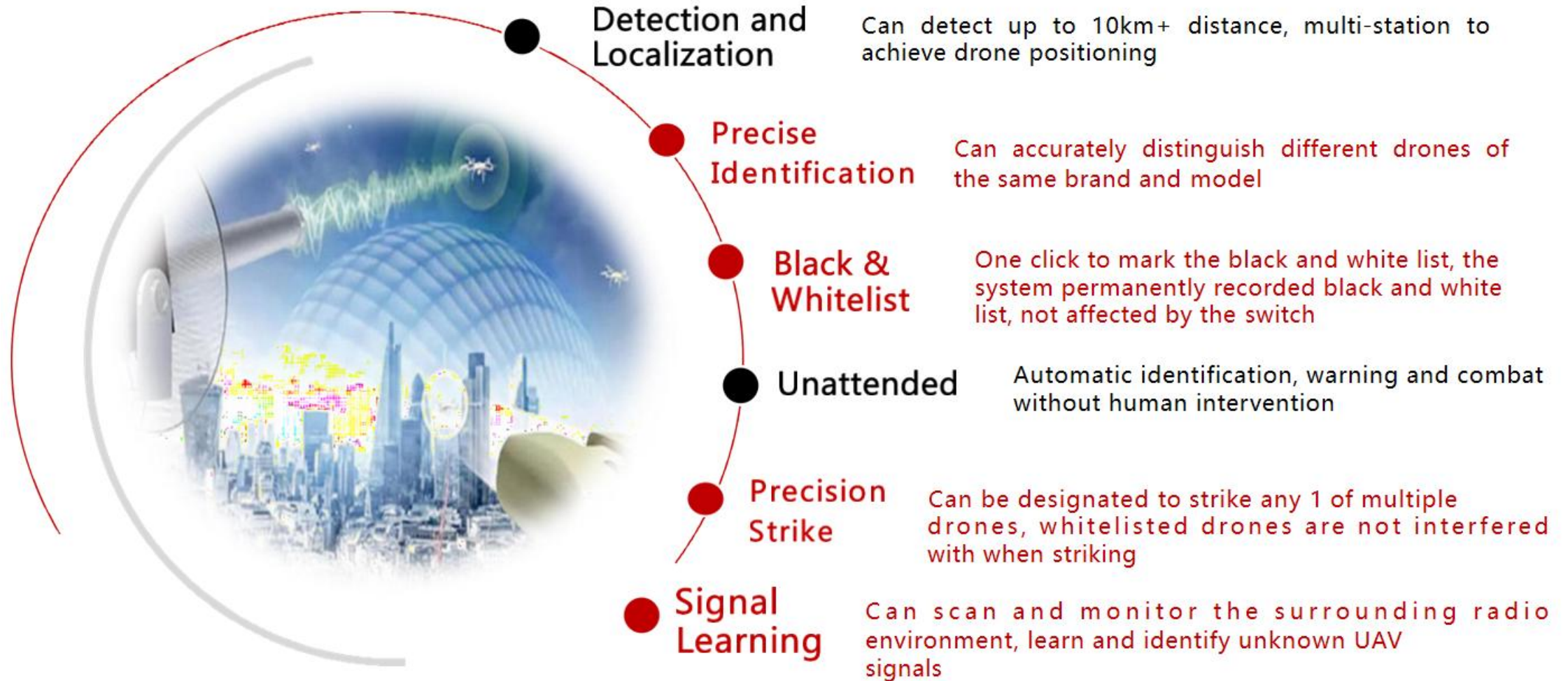


Cognitive Radio Protocol Cracking (CRPC)

- Black and Whitelist
- Precise identification
- Distinguish the enemy from us
- Precise strike

Through offline analysis of UAV communication protocols and extraction of electronic fingerprint IDs, the features are applied to precise detection of UAVs (rapid feature matching identification) and precise strikes (distinguishing different UAVs for strikes).

Features of LZ Anti Drone System



LZ Drone Detection Series-1

Model	Detection Distance	Direction Finding
800AD	3KM	Internal
2000AD	5KM	Internal
5000AD	10KM	Internal



Fixed Design Drone Detection System

Passive
detection

Support Frequencies

30MHz~6GHz Full band scanning, detection, display

Main Drone frequency: 2.4G, 5.8G(Other frequency bands can be customized)

Detection Range

3km, 5km, 10km

Detection Sensitivity

$\geq -95\text{dBm}$ (25kHz)

Direction Finding Accuracy

Moving $\leq 10^\circ$, Hovering $\leq 3^\circ$

Direction Directivity

360°Omnidirectional

Adaptable communication modulation method


FM, 2FSK, 4FSK, GFSK, MSK, BPSK, QPSK, 16QAM, 64QAM, OFDM, DSSS, FHSS

Simultaneous Detection

≥ 30 Drones


LZ Drone Detection Series-2

Model: 890B (full bands detection without direction finding)

 <p>Full Bands AIO Design Drone Detection System</p>	Passive detection	Support Frequencies	30MHz~6GHz Full band scanning, detection, display Main Detection bands: 433M, 900M, 1.4G, 2.4G, 5.2G, 5.8G
		Detection Range	5km
		Detection Sensitivity	≥ -95dBm (25kHz)
		Direction Finding Accuracy	/
		Direction Directivity	360°Omnidirectional
		Control Method	external connection to monitor terminal
		Simultaneous Detection	≥30 Drones

LZ Drone Detection Series-3

Model: 2900BD (full bands detection with direction finding)

 <p>Full Bands AIO Design Drone Detection System</p>	Passive detection	Support Frequencies	30MHz ~6GHz Full band scanning, detection, display Main Detection bands: 433M, 900M, 1.4G, 2.4G, 5.2G, 5.8G
		Detection Range	5km
		Detection Sensitivity	≥ -95dBm (25kHz)
		Direction Finding Accuracy	Moving ≤ 10°, Hovering ≤ 3°
		Direction Directivity	360°Omnidirectional
		Control Method	external connection to monitor terminal
		Simultaneous Detection	≥30 Drones

LZ Drone Detection Series-4

Model: Sentinel 100 (Portable Handheld drone detection system)



Handheld Drone Detection System

Passive detection	Information Display	Support LED display, mobile terminal APP
	Support Frequencies	2.4G、5.8G
	Detection Range	≥ 1.5km
	Direction Finding Accuracy	≥30°
	Battery Life	≥ 4h
	Power	Built-in lithium battery
	Dimensions	285mm×135mm×135mm (Length×Width×Height)
	Weight	≤3kg (Battery included)

LZ Drone Detection Series-5

Model: VAR100



Photoelectric Drone Detection System

Positive
Detection

Detection Method	Active scanning, searching, identifying, tracking (No need for radar, radio and other equipment guidance)
Detection Distance	500m-1000m
Detection Range	Horizontal : 360°
	Vertical : -15°~+15° (Adjustable)
Focal length	6mm~128mm
Dimensions	1113mm×208mm (Height×Maximum diameter)
Weight	24.5kg (Stand included)
Voltage	AC220V
Port	RJ-45 port


LZ Drone Detection Series-6



Contents		Model	
		YFR-01B	YFR-01C
Bands		Ku	Ku
Detection Distance	Drones (RCS=0.01m ²)	3km	5km
Detection Accuracy	Distance	≤10m	≤10m
	Position	≤0.8°	≤0.6°
	Pitch	≤0.8°	≤0.6°
Coverage		Position: 0° ~ 360° Pitch: 0° ~ 40°	Position: 0° ~ 360° Pitch: 0° ~ 40°
Data Rate		6s/r	6s/r
Weight		≤16kg	≤25kg
Size		≤560×210×400mm	≤610×270×430mm
Power Consumption		≤120W	≤160W
Installing Means		Fixed/Vehicular	Fixed/Vehicular

Drone Detection and Jamming Integrated System-1

Model	Detection Distance	Wideband Jamming Distance	Precise Strike Distance
W1520D	3KM	2KM	2KM
W3520D	5KM	3KM	3KM
W5520D	10KM	3KM	3KM

	Passive detection	Support Frequencies	30MHz ~ 6GHz Full band scanning, detection, display Main Drone frequency: 2.4G, 5.8G (Other frequency bands can be customized)
		Detection Range	3km, 5km, 10km
		Detection Sensitivity	≥ -95dBm (25kHz)
		Direction Finding Accuracy	Moving ≤ 10°, Hovering ≤ 3°
		Direction Directivity	360° Omnidirectional
		Adaptable communication modulation method	FM, 2FSK, 4FSK, GFSK, MSK, BPSK, QPSK, 16QAM, 64QAM, OFDM, DSSS, FHSS
		Simultaneous Detection	≥ 30 Drones
	Wideband jamming	Support Frequencies	2.4G, 5.8G, 1.5G (Other frequency bands can be customized)
		Jamming Range	2km 3km
	Precise Defense	Support Frequencies	2.4G, 5.8G
		Defense Range	2km, 3km

Fixed Design Drone Detection & Jamming System


Drone Detection and Jamming Integrated System-2

Vehicular Design Drone Detection & Jamming System
(It is fixed design model with modification and assemble on vehicle, so as to be able to work in car during driving.)



Drone Detection and Jamming Integrated System-3

Model: W1520V Portable Suitcase design Anti drone system

	Passive detection	Support Frequencies	30MHz ~ 6GHz Full band scanning, detection, display Main Detection bands: 2.4G, 5.8G(other bands can be customized)
		Detection Range	3km
		Detection Sensitivity	≥ -95dBm (25kHz)
		Direction Finding Accuracy	Moving ≤ 10°, Hovering ≤ 3° (Need to equip with direction finding antenna)
		Direction Directivity	360°Omnidirectional
		Control Method	Built-in touch LCD display and control integrated system
		Simultaneous Detection	≥30 Drones
	Wideband jamming	Support Frequencies	2.4G、5.8G、1.5G (Other frequency bands can be customized)
		Jamming Range	2km
	Precise Defense	Support Frequencies	2.4G、5.8G
		Defense Range	2km

Portable Suitcase Design Drone Detection & Jamming System

Drone Detection and Jamming Integrated System-4

Model: W1320 Portable Hnadheld design Anti drone system



Portable Handheld Design Drone Detection & Jamming System

Passive detection	Support Frequencies	30MHz ~ 6GHz Full band scanning, detection, display Main Detection bands: 2.4G, 5.8G(other bands can be customized)
	Detection Range	1.5km
	Detection Sensitivity	≥ -95dBm (25kHz)
	Direction Directivity	360°Omnidirectional
	Control Method	Built-in touch LCD display and control integrated system
	Simultaneous Detection	≥30 Drones
Wideband jamming	Support Frequencies	2.4G、 5.8G、 1.5G (Other frequency bands can be customized)
	Jamming Range	1km

Anti Drone Jamming Only Models-1


Model: W1006 Full bands anti drone jamming gun

 <p>6-band high-power UAV countermeasure equipment</p>	Wideband Jamming	Support Frequencies	CH1: 433MHz, Output 10W CH2: 900MHz, Output 10W CH3: 2.4G: 2400-2500 MHz, Output 20W CH4: 5.8G: 5725-5850 MHz, Output 20W CH5: GPSL1&Glonass L1: 1560-1620 MHz, Output 20W CH6: 5.2G: 5150-5350MHz, Output 20W Other bands customizable
		Jamming Distance	1.5km to 2km
		Power	24V 15A (External Battery Optional), AC charging optional
		Working Time	3 to 4 hours
		Working Temperature	-22℃ to +70℃
		Humidity	35~85%
		LED Display	internal

Notes: fewer bands gun available.

Anti Drone Jamming Only Models-2


Model: B1008 Full bands Omnidirectional jamming bag

 8-Bands Drone Jamming Bag	Wideband Jamming	Support Frequencies	433MHz 10W 900MHz 10W 1.2GHz 10W 1.4GHz 10W 1.5GHz 10W 5.2GHz 20W 2.4GHz 100W 5.8GHz 50W
		Battery	24V 15A/H
		Battery Display	LED Display shows power amount
		Countermeasure Ability	Drive Away/Land
		Countermeasure Distance	1000m to 1500m
		Countermeasure Angle	360°
		Working Time(with battery)	1to 2 hours

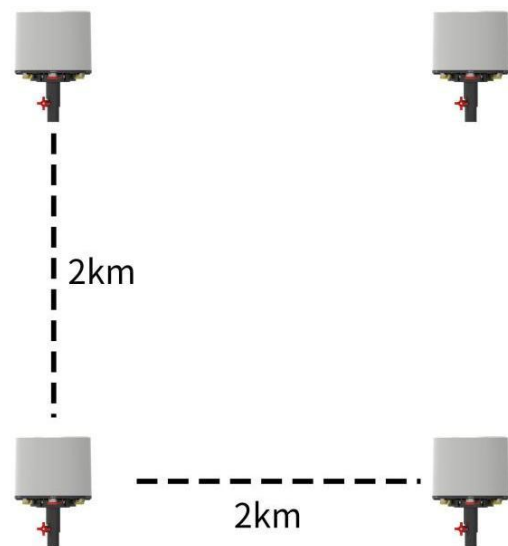
Notes: Fewer bands, directional jamming bags available.

Anti Drone Jamming Only Models-3

Model: S60 Directional Shield shape Anti Drone Jammer

 <p>3-Bands Drone Jamming Shield</p>	Wideband Jamming	Support Frequencies	1.5GHz 10W 2.4GHz 30W 5.8GHz 20W
		Battery	24V 6.5A/H
		Battery Display	LED Display shows power amount
		Countermeasure Ability	Drive Away
		Countermeasure Distance	1000m to 1500m
		Countermeasure Angle	30°
		Working Time(with battery)	1 to 2 hours

TDOA+



Passive Detection	Frequencies	70MHz~6000MHz, Main focus on 0.4、0.9、1.4、2.4、5.8GHz
	Distance	3km(TDOA operating scope)
	Reconnaissance airspace	360°full range
	Positioning accuracy	≤10m
	DF accuracy	< 1° (RMS)
	Refresh time	≤2s
	Simultaneous Tracking amount	≥5 drones
	Power supply	AC110V~220V or portable power supply
	Size	φ 224mm*278.5mm(single unit)
	Net Weight	≤5kg
	Appliance Means	4 or more amount integrated to form TDOA+

TDOA+ can track drones, pilots, and take precise control of low altitude security.