

**HANDHELD
DETECT & JAMMING DRONES SYSTEM
(AI2 BACKPACK & TTSKW02)**

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AI2 BACK PACK DRONE SIGNAL JAMMER

This is a back pack type drone signal jammer for personal use with built-in rechargeable battery.

- It can automatically force drone leave or land in about 1000 to 1500 meter radius with high gain OMNI directional antenna;
- and force drone leave or land in about 1500 to 2000 meter with high gain directional antenna targeting the drone;
- both the distances depends on real environment

Product Feature

- Can use 2 different kind antenna
- 8 Channel jamming frequency
- High output Power total 210W for effective and stable jamming
- Solid and high gain antenna
- Durable military resin out shell: water proof, dust proof, heat resistant, anti corrosion
- Smart cooling design: with ultra heat sink inside, large cooling fans to bring cool air in and blow hot air out
- Built in lithium battery can lasts 1 hour
- Back pack style for easy moving
- With AC and DC charging Both

IP65 protection grade



AI2 BACK PACK DRONE SIGNAL JAMMER

Product Type	Back pack drone jammer
Jamming Range	1000-1500 meter radius (OMNI antenna) 1500-1500 meter range (Panel antenna) (according to the real environment)
Working Channels	GPSL1: 1560-1620 MHz, 20W GPSL2: 1170-1280MHz, 20W 1.4G:1380-1400MHz,20W WiFi 2.4G: 2400-2485 MHz, 50W WiFi 5.8G: 5725-5850 MHz, 30W 5.2G: 5150-5350 MHz, 30W 900: 920-960MHz, 20W 433:425-440MHz,20w Total 8 channel
Total Output Power	210W
Body Size	49*35*19 CM
Body Weight	16.8 kg
Outer Antenna	High gain 16dBi Panel directional Antenna
Working Temperature	-20°C~75°C
Working Humidity	35~95%
Power Consumption	< 900W
Power Input 1	AC100V~240V
Power Input 2	DC24V
Built-in Battery	DC24V 30A
Battery Lasting Time	1Hour

Packing List:

1x Back pack signal jammer,
8 x High gain OMNI directional antennas,
1x Panel Antenna,
1x AC Power Charger,
1x DC Power Charger



Drone Detection & DF Handset

TTSKW02 Handheld UAV detection and direction finding (DF) equipment is used for UAV detection and direction finding. Based on spectrum sensing and artificial intelligence technology, the image transmission link of UAV is identified and classified. The equipment features include: detection of UAVs with a wide range of frequency bands and various types; the feature library can be upgraded;

Perform direction finding to obtain the position of the drone.

- Real-time detection function: the equipment can display the number, brand, model and operating frequency of detected drones in real time;
- Direction-finding function: The equipment has a direction-finding mode. After the equipment is equipped with a direction-finding antenna, the equipment can perform direction-finding on the UAV target;
- Sensitivity adjustment function: the equipment supports adjusting the signal recognition threshold by adjusting the detection sensitivity option;
- Low battery reminder function: Equipped with multi-level battery display, when the battery is too low, it will give an alarm prompt;
- Alarm mode configuration function: support multiple alarm modes such as light and sound, and the urgency of the alarm ringtone is adjustable.

IP65 protection grade



Drone Detection & DF Handset

An optional direction finding antenna comes with the device, giving it the capability to determine the rough direction of a coming drone.

The device collects surrounding radio signals and sorts drone signals out via deep learning. When a drone is identified, it alerts people through sound and/or light alarms

Work mode: RF sensing

Frequency: 2.4GHz、5.8GHz

Range: 1 - 2 km (Varies due to environment and drone model)

DF error: Azimuth error < 17.5° (at 1 km)

Work temperature: -20°C - 55°C

Duration: ≥6h

Dimension: Handset L*W*H: 235mm*66mm*43mm

DF antenna L*W: 300mm*217mm

Weight: Handset ≤ 800g

DF Antenna ≤ 310g

IP65 protection grade



Drone Detection & DF Handset

TTSKW01 & TTSKW02

Direction
Finding
(DF Antenna)

Determine the
rough drone
direction

Highly
portable

Light, small,
carry-on,
drop-proof

Low false
alarm

Average false
alarm rate
< once per day

Visual UI

Real-time
display

Long
Range

2-3km range
under DF
mode

Passive
technology

No radio signal
transmission

Multiple
alarms

Flicker and/or
sound alarm

Modular
design

Work independently
or
pair with jammer

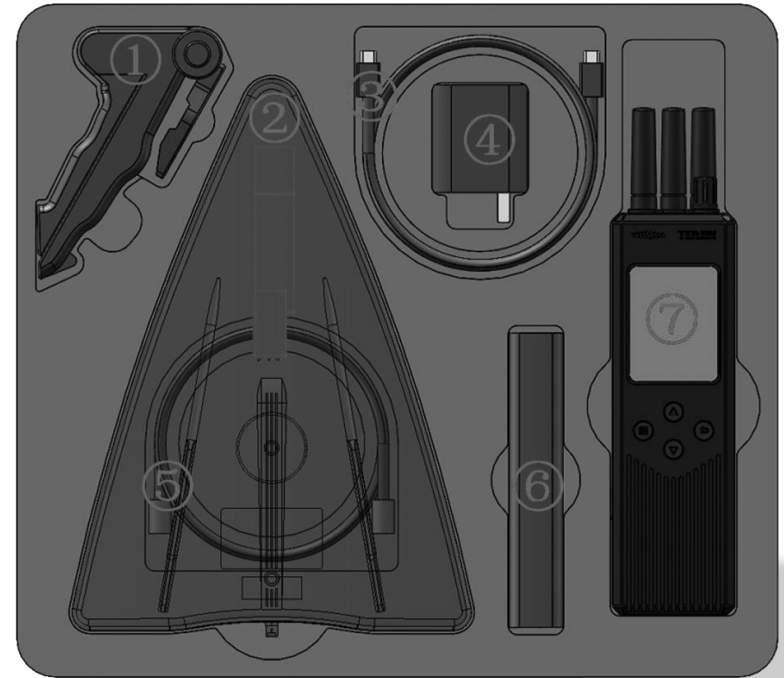
DJI and
non-DJI

Mainstream,
DIY, FPV,
racing drones
included

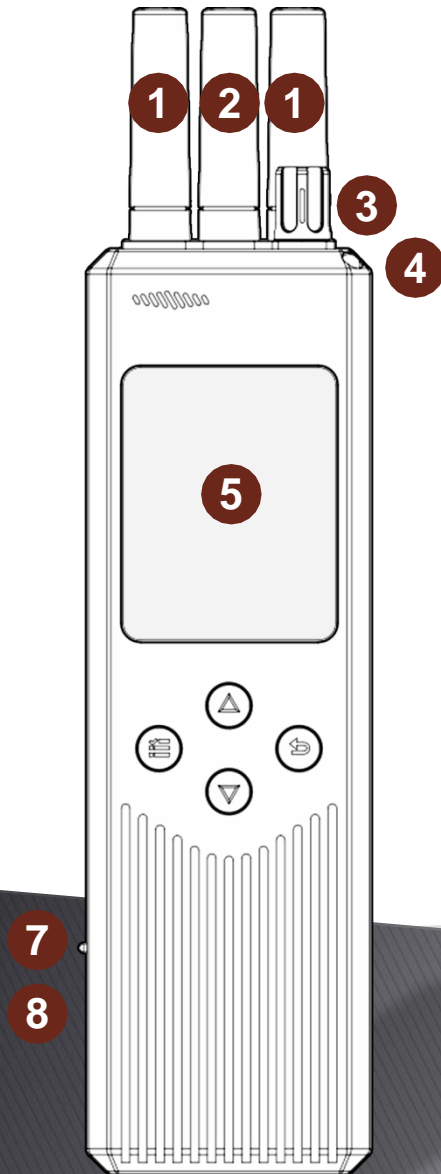


Drone Detection & DF Handset

- 1- Antenna Grip
- 2 - Broadband DirectionalAntenna
- 3- Charging Cable Type-C to Type-C
- 4 - Power Adapter
- 5 - Ultra-flexible RF cable
- 6 - Charger
- 7 - Power Bank
- 8 - Device host (Built-in omnidirectional detection antenna)



Drone Detection & DF Handset



1. Omni Directional Detection Antenna (2.4/5.8GHz frequency band)
2. Omni Directional Sounding Antenna (900 MHz - 1.4GHz frequency band/When using the direction finding mode to be replaced with a broadband direction antenna)
3. Rotary switch
4. Warning light
5. Screen
6. Button
7. Charging indicator
8. Type C charging interface

The antenna has two polarization modes: Vertical polarization and horizontal polarization.

The corresponding holding methods are shown in figure “A” (vertical polarization) and figure “B” (horizontal polarization).

The usage scenarios corresponding to the two polarization modes are as follows:

After entering the direction finding mode, first use the holding method as shown in Figure “A” to search for the drone in circles.

If the drone’s position is not confirmed after multiple (≥ 2) circles (the signal strength value changes little or no change), then change the holding mode to that shown in Figure “B” and then search in circles.



A : Vertical polarization



B: Horizontal polarization

Drone Detection & DF Handset

- The equipment has a low-battery alarm function, and it should be charged in time when it is in the low-battery alarm state to prolong the battery life;
- Avoid strong collisions and drops when in use, and put it in a protective box when not in use;
- After long-term use of the equipment, the buttons, control knobs, and casing are prone to get dirty. Please clean the casing with neutral detergent or wet wipes. Do not use chemicals such as stain removers, alcohol, sprays or petroleum preparations that may damage equipment;
- While keeping the equipment away from fire sources, it is necessary to ensure that the contact environment is dry. Do not let the battery touch water, otherwise there may be a short circuit;
- When installing a directional antenna, please ensure that the SMA interface (that is, the antenna connection interface) is tightened to avoid affecting the receiving performance;
- When the equipment is not in use for a long time, the battery should be kept with a certain amount of power (That is, it needs to be charged once when it has not been used for 2 weeks) to avoid damage to the battery due to over-discharge.



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