HANDHELD DETECT DRONES SYSTEM TTSKW

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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

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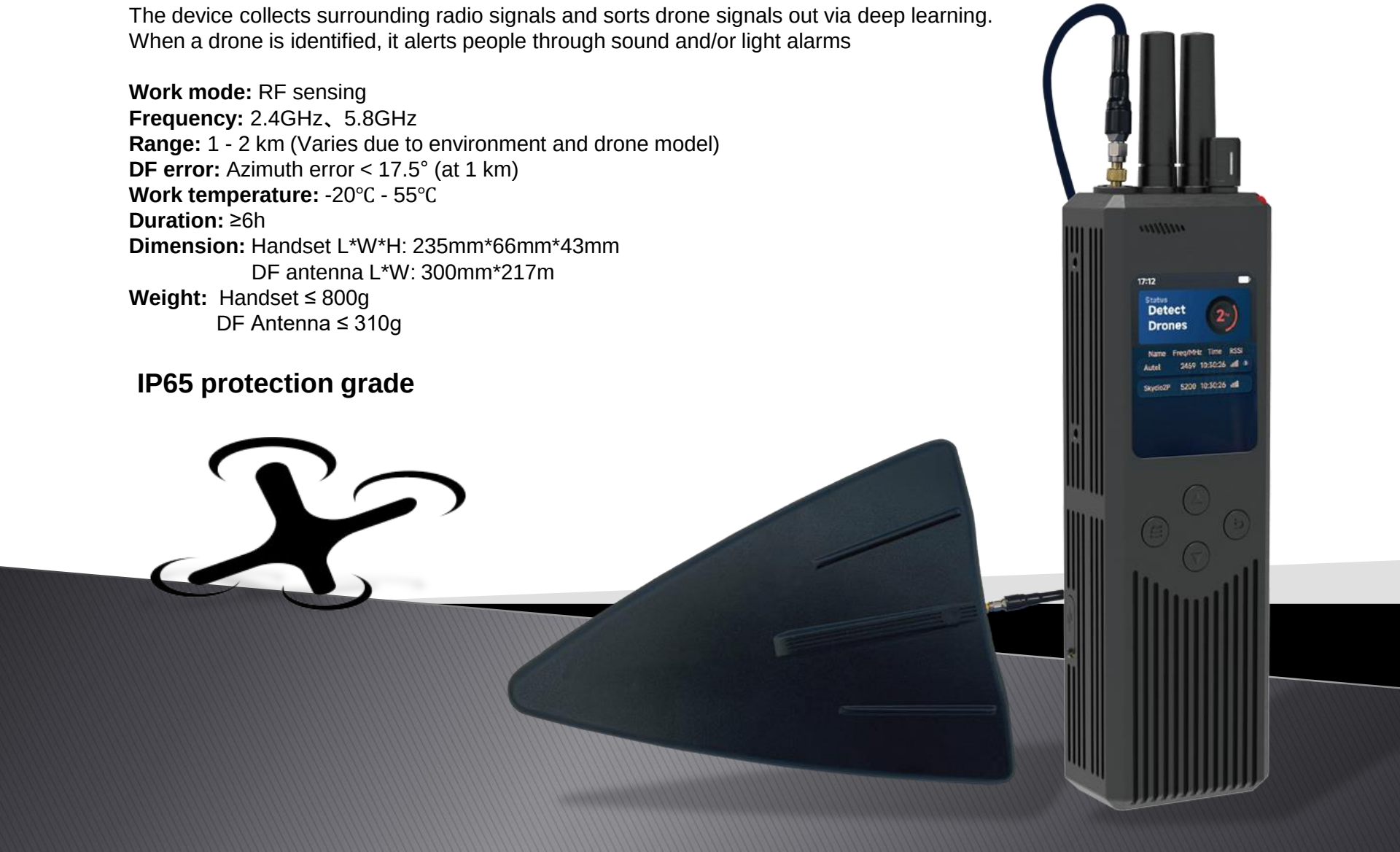
An optional direction finding antenna comes with the device, giving it the capability to determine the rough direction of a coming drone.

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℃ - 55℃
Duration: ≥6h
Dimension: Handset L*W*H: 235mm*66mm*43mm
DF antenna L*W: 300mm*217m
Weight: Handset ≤ 800g
DF Antenna ≤ 310g

IP65 protection grade



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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

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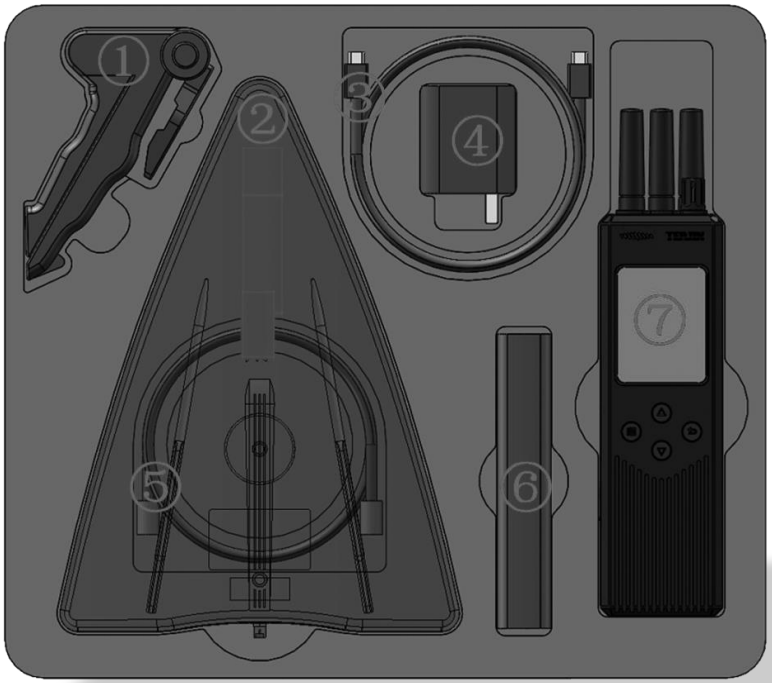
1- Antenna Grip
2 - Broadband Directional Antenna
3- Charging Cable Type-C to Type-C
4 - Power Adapter
5 - Ultra-flexible RF cable
6 - Charger
7 - Power Bank
8 - Device host (Built-in omnidirectional detection antenna)



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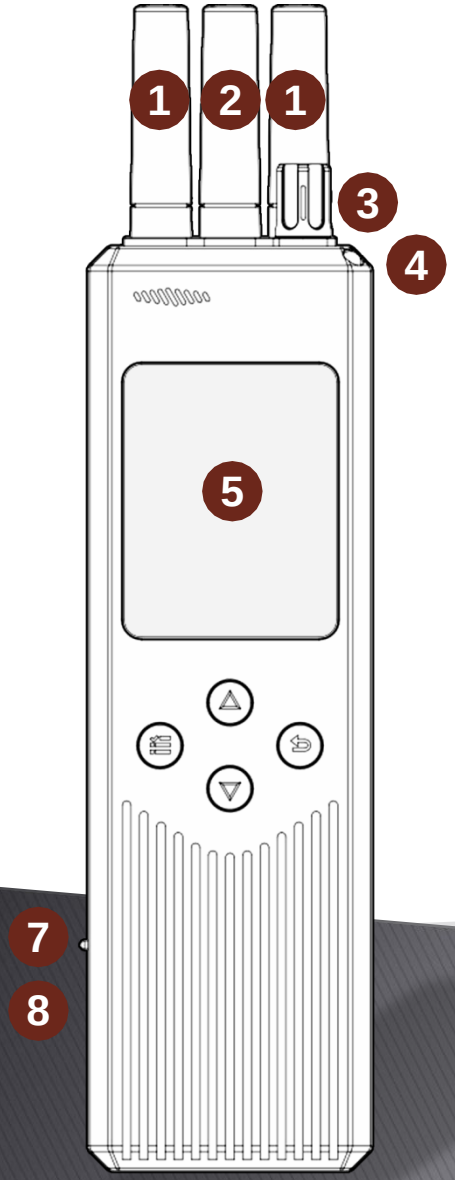
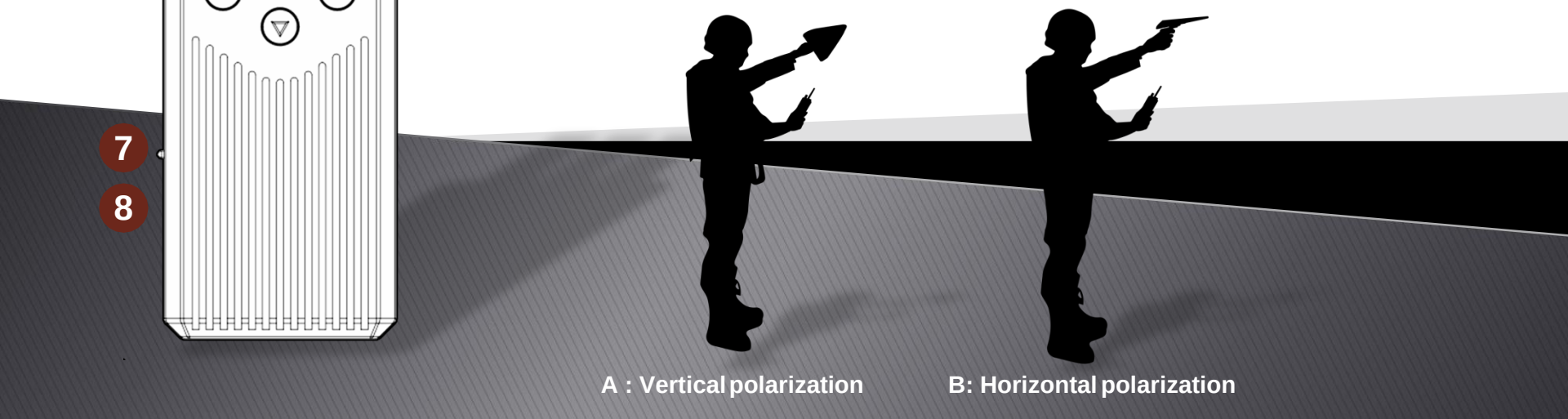


1. Omni Directional Detection Antenna (2.4/5.8GHz frequency band)
2. Omni Directional Sounding Antenna (900 MHz - 1.4GHZ frequency band/When using the direction finding mode to be replaced with a broadband direction antenna)
3. Rotary switch
4. Warning light
5. Screen
6. Button
7. Charging indicator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

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-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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