

## Anti-UAV

### Portable Reconnaissance & Countermeasure Combo Device



VA-S-10 is a multi-functional handheld drone jammer capable of effectively detecting, identifying, targeting, and countering drone threats. VA-S-10 possesses strong countermeasure capability against most types and models of drones, while simultaneously jamming the flight control and navigation signals of multiple drones. Its compact design and user-friendly interface make the VA-S-10 an ideal Counter-UAS (C-UAS) solution for various scenarios such as event security, VIP protection, and energy base security.

<b>Model</b>	VA-S-10
<b>Parameters</b>	<b>Jamming Frequency Range:</b> 400MHz-6GHz
	<b>Jamming Beamwidth:</b> Azimuth $\pm 15^\circ$ , Elevation $\pm 7^\circ$
	<b>Jamming Power:</b> 400MHz~2GHz 20W, 2GHz~4GHz 20W, 4GHz~6GHz 40W
	<b>Jamming Range:</b> $\geq 3$ km
	<b>Detection Signal Direction:</b> Omnidirectional
	<b>Detection Range:</b> $\geq 3$ km
	<b>Direction Finding Accuracy (Azimuth):</b> $10^\circ$ ; (2.4G, 5.8G)
	<b>Operating Temperature:</b> $-20^\circ\text{C} \sim 55^\circ\text{C}$
	<b>Screen Size:</b> 3.5 inches
	<b>IP Rating:</b> IP65
<b>Unit</b>	<b>Dimensions:</b> 778mm(L) x 337mm(W) x 113mm(H)
	<b>Weight:</b> 6.5kg
	<b>Supports software upgrade and log retrieval</b>
	<b>Set</b>

## Anti-UAV

### Portable FPV Reconnaissance & Countermeasure Combo



Based on the VA-S-10, the VA-SP-10 adds expanded capability for low-frequency jamming (targeting FPV). It can deliver 100W jamming against signals from 300M-1.1G. Additionally, the digital source frequency band is adjustable, allowing users to customize jamming bands for better jamming-to-control ratio (JCR).

<b>Model</b>	VA-SP-10
<b>Parameters</b>	<b>Jamming Frequency Range:</b> 400MHz-6GHz
	<b>Jamming Beamwidth:</b> Azimuth $\pm 15^\circ$ , Elevation $\pm 7^\circ$
	<b>Jamming Power:</b> 400MHz~2GHz 20W, 2GHz~4GHz 20W, 4GHz~6GHz 40W;
	<b>Jamming Range:</b> $\geq 3$ km
	<b>Detection Signal Direction:</b> Omnidirectional
	<b>Detection Range:</b> $\geq 3$ km
	<b>Direction Finding Accuracy (Azimuth):</b> $10^\circ$ ; (2.4G, 5.8G)
	<b>Screen Size:</b> 3.5 inches
	<b>IP Rating:</b> IP65
	<b>Countermeasure Bands:</b> 0.3~6GHz / Key Countermeasure Band: 300~1100MHz
<b>Unit</b>	<b>Countermeasure Power per Band:</b> 0.3~2GHz: 20W / 2~4GHz: 20W / 4~6GHz: 40W / 300~1100MHz: 100W
	<b>Countermeasure Effectiveness:</b>
	<b>Precision Jamming Strategy:</b> TBS Crossfire(2W) 1:1; ELRS(1W) 1:3
	<b>Broadband Universal Jamming Strategy:</b> TBS Crossfire(2W) 1:2; ELRS(1W) 1:5
<b>Set</b>	

## Anti-UAV



### Detachable Reconnaissance & Counter Combo Gimbal

A fully automatic Counter-UAS system that protects fixed sites from intrusive drone interference without requiring constant human monitoring. Suitable for government buildings, events, prisons, and other scenarios. The gimbal-mounted jammer can autonomously detect, target, and jam intrusive drones. Jamming logs are automatically fed back to the user end regularly for review. The device supports fixed and portable modes. When detached from the gimbal, it can be used portably like the VA-S-10. Mounted on the gimbal and connected via control cable, it enables automatic detection-targeting-jamming.

Model	VA-SP-11
Parameters	Jamming Frequency Range: 400MHz-6GHz
	Jamming Beamwidth: Azimuth $\pm 15^\circ$ , Elevation $\pm 7^\circ$
	Jamming Power: 400MHz~2GHz 20W, 2GHz~4GHz 20W, 4GHz~6GHz 40W
	Jamming Range: $\geq 3$ km
	Detection Signal Direction: Omnidirectional
	Detection Range: $\geq 3$ km
	Direction Finding Accuracy (Azimuth): $10^\circ$ ; (2.4G, 5.8G)
	Operating Temperature: $-20^\circ\text{C} \sim 55^\circ\text{C}$
	Screen Size: 3.5 inches
	IP Rating: IP65
Unit	Equipment main body paired with a dedicated gimbal. When used together, it can be deployed fixedly, achieving automatic detection, directional jamming, and unmanned counter-UAS operations
	Set

## Anti-UAV



### Portable Pure Jamming Device

VA-SL-10 is a portable radio jammer targeting low-slow-small (LSS) drones. Its key function is countering drone flight control and navigation bands, enabling rapid forced landing or expulsion of drones to solve no-fly zone management issues for LSS drones. By connecting a GNSS Spoofing Device via Ethernet port, it can simultaneously jam flight control and GNSS signals of commercial drones, forcing the drone to crash, thereby preventing a commercial drone from returning to home after being jammed for a secondary attack.

Model	VA-SL-10
Parameters	Can jam drone flight control/video transmission bands; can jam GNSS bands; jamming frequency coverage suits most drones; releases all jamming bands simultaneously
	Countermeasure bands include: 868MHz, 915MHz, 1.2GHz, 1.4GHz, 1.6GHz, 2.4GHz, 4.95GHz, 5.2GHz, 5.35GHz, 5.6GHz, 5.8GHz. No manual band configuration needed
	825~945MHz one PA (20W); 1160~1295MHz; 1410~1465MHz; 1555~1620MHz share one PA (20W), three bands output time-shared; 2395~2495MHz one PA (20W); 4845~6015MHz one PA (40W)
	Can force drone crash by connecting to spoofing device
	Dimensions (mm): 795 * 100 * 304
	Weight (kg): 4 (device only)
	Jamming Radius (km): 1.5
	Beam Accuracy Azimuth: $\pm 15^\circ$
	Elevation: $\pm 10^\circ$
	User Logs: Supported
IP Rating: IP65	
Unit	Set

## Anti-UAV

### Portable Pure Jamming Device - Lite Version



VA-SL-11 is a portable radio jammer targeting low-slow-small (LSS) drones. Its key function is countering drone flight control and navigation bands, enabling rapid forced landing or expulsion of drones to solve no-fly zone management issues for LSS drones.

<b>Model</b>	VA-SL-11
<b>Parameters</b>	Can jam drone flight control/video transmission bands; can jam GNSS bands; jamming frequency coverage suits most drones; releases all jamming bands simultaneously
	<b>Countermeasure bands include:</b> 868MHz, 915MHz, 1.2GHz, 1.4GHz, 1.6GHz, 2.4GHz, 4.95GHz, 5.2GHz, 5.35GHz, 5.6GHz, 5.8GHz
	825~945MHz one PA (20W); 1160~1295MHz; 1410~1465MHz; 1555~1620MHz share one PA (20W), three bands output time-shared ;2395~2495MHz one PA (20W); 4845~6015MHz one PA (40W)
	Can force drone crash by connecting to spoofing device
	<b>Dimensions (mm):</b> 795 * 100 * 304
	<b>Weight (kg):</b> 4 (device only)
	<b>Jamming Radius (km):</b> 1.5
	<b>Beam Accuracy Azimuth:</b> ±15°
	<b>Elevation:</b> ±10°
	<b>User Logs:</b> Supported
<b>IP Rating:</b> IP65	
<b>Unit</b>	Set

## Anti-UAV

### Vehicle-mounted FPV Jammer



The Vehicle-mounted FPV jammer disrupts drone reception of remote control signals by generating high-power jamming signals, forming a protective shield against FPV threats. Using software-defined radio (SDR) technology, it adapts flexibly via software configuration to different wireless communication protocols and bands, significantly enhancing jamming effectiveness and sustainable countermeasure capability compared to traditional analog methods. Extended module band customization can increase strikes against commercial drones while supplementing unconventional FPV bands.

<b>Model</b>	VA-V-10
<b>Parameters</b>	<b>Effective Protection Radius:</b> >2000m (Depends on drone type, power & JCR)
	<b>Effective Protection Height:</b> >500m
	<b>Coverage Angle:</b> Azimuth: 360° , Elevation: 90°
	<b>Jamming Bands:</b> 600-1100MHz, 2400-2500MHz, 4900-5900MHz
	<b>Output Power:</b> 600-1100MHz: Single-channel output power 100W *4 2400-2500MHz: Single-channel output power 100W *2 4900-5900MHz: Single-channel output power 100W *1
	<b>Main Unit Output Power:</b> 700W
	<b>Expansion Capability:</b> Customizable jamming bands, single-channel output power ≤ 100W
	<b>Protection Rating:</b> IP67
	<b>Operating Temperature:</b> -40° C ~ +70° C
	<b>Storage Temperature:</b> -40° C ~ +70° C
	<b>Dimensions (LWH):</b> 760 * 578 * 480 mm (Main Unit)
	<b>Total Power Consumption:</b> 2800W
	<b>Weight:</b> 35kg (Main Unit) / 5kg (Per Expansion Module)
	<b>Power Supply Voltage:</b> 28V & 220V
	<b>Unit</b>

## Anti-UAV

### FPV Jammer Device



VA-V-11 disrupts drone reception of remote control signals by generating high-power jamming signals, forming a protective shield against FPV threats. Using software-defined radio (SDR) technology, it adapts flexibly via software configuration to different wireless communication protocols and bands, significantly enhancing jamming effectiveness and sustainable countermeasure capability compared to traditional analog methods.

Compared to Hunter F, this device employs omnidirectional jamming, eliminating the need for directional aiming and reducing band limitations associated with directional antennas. Expansion module band customization increases strikes against commercial drones while supplementing unconventional FPV bands.

<b>Model</b>	VA-V-11
<b>Parameters</b>	<b>Effective Protection Radius:</b> >2000m (Depends on drone type, power & JCR)
	<b>Effective Protection Height:</b> >500m
	<b>Coverage Angle:</b> Azimuth: 360°, Elevation: 90°
	<b>Jamming Bands:</b> 600-1100MHz, 2400-2500MHz, 4900-5900MHz
	<b>Output Power</b>
	600-1100MHz: Single-channel output power 100W *4
	2400-2500MHz: Single-channel output power 100W *2
	4900-5900MHz: Single-channel output power 100W *1
	<b>Expansion Capability:</b> Customizable jamming bands, single-channel output power ≤ 100W
	<b>Total Output Power:</b> 1100W
	<b>Protection Rating:</b> IP67
	<b>Operating Temperature:</b> -40° C ~ +70° C
	<b>Storage Temperature:</b> -40° C ~ +70° C
	<b>Dimensions(LWH):</b> 1300 * 1300 * 1840mm
<b>Total Power Consumption:</b> 2800W	
<b>Weight:</b> 110kg	
<b>Power Supply Voltage:</b> 28V & 220V	
<b>Unit</b>	Set

## Anti-UAV

### Vehicle-mounted Drone Detection & Locator



Designed for vehicular low-altitude drone surveillance. Combines protocol analysis (decoding Drone ID/ Remote ID for DJI drones) and spectrum detection (for non-cooperative drones). Captures drone/pilot coordinates, speed, altitude and SN in real-time.

<b>Model</b>	VA-VP-10
<b>Parameters</b>	<b>Radio Detection</b>
	<b>Band:</b> 0.4-6GHz (Extendable)
	<b>Range:</b> 4km (DJI Mavic 3 SRRC)
	<b>Output:</b> Protocol & operating band
	<b>Protocol Analysis</b>
	<b>Content:</b> Drone ID/Remote ID (O4 requires internet)
	<b>Range:</b> 4km
	<b>Data:</b> SN, coordinates, speed, pilot location
	<b>Refresh:</b> <3s
	<b>Capacity:</b> >30 drones
	<b>EM Detection:</b> 400M-6GHz
	<b>IP66</b>
	<b>Power:</b> <50W
	<b>Temp:</b> -30° C~+55° C (Op)/-40° C~+70° C (St)
<b>Power:</b> 220V AC	
<b>Dimensions:</b> 780×472×280mm, 26.5kg	
<b>Unit</b>	Set

## Anti-UAV

### Portable Handheld Detection Device



ZK-H-11 employs advanced radio spectrum detection capabilities to provide users with real-time situational awareness, simplifying operations without distraction. It achieves real-time detection without emitting signals by scanning the RF spectrum and analyzing drone data transmission protocols. It covers mainstream commercial drones like DJI, Autel, as well as homemade FPV drones and large multi-rotor drones. With automatic detection, it effectively identifies threats and alerts users promptly via "sound-light-vibration" alarms. It can also efficiently parse drone broadcast protocol signals (DroneID+RemotelD), comprehensively capturing key drone information (including precise drone position, altitude, speed, SN code, pilot position, etc.) (O4 parsing requires internet connection).

<b>Model</b>	VA-H-11
	<b>Dimensions:</b> 125 * 76 * 419mm (Expanded state, incl. antenna)
	<b>Weight:</b> 1550g (incl. battery)
	<b>Feedback Method:</b> Vibration/Buzzer/LED Flash
	<b>Spectrum Detectable Models</b>
	<b>Commercial:</b> DJI, Autel, FIMI, Parrot, etc.
	<b>FPV VTx Brands:</b> TBS, rushfpv, PandaRC, matekeyy, rxc, SpeedyBee, iFlight, etc.
	<b>FPV Flight Controller Brands:</b> TBS, ELRS, Foxeer, etc. (Device needs placement at height)
	<b>Protocol Parsing:</b> DroneID RemotelD (O4 parsing requires internet)
<b>Parameters</b>	<b>Detection Range(km):</b> 3 (Omnidirectional)
	<b>Detectable Bands:</b> 0.4~6GHz (Key bands: 800~900MHz, 1.2GHz, 2.4GHz, 5.2GHz, 5.8GHz)
	<b>Simultaneous Detected Drones:</b> ≥ 10
	<b>Directional Detection Bands:</b> 2.4GHz/5.2GHz/5.8GHz
	<b>Directional Accuracy:</b> ±15°
	<b>Video Interception Models:</b> rushfpv, matekeyy, rxc, TBS, SpeedyBee, PandaRC, iFlight, etc. analog VTx
	<b>Real-time Spectrum Analyzer:</b> 70M-6GHz
	<b>Protection Rating:</b> IP65
	<b>Operating Temp(° C):</b> -20~+55
	Can connect to management platform or via Bluetooth to mobile app
<b>Unit</b>	Set

## Anti-UAV

### Vehicle-mounted Detector (Split-type)



VA-VP-11 device is suitable for vehicle-mounted use in low-altitude drone supervision. The device has two monitoring methods: protocol parsing and radio spectrum detection. Protocol parsing can perform real-time monitoring on mainstream commercial drones such as DJI. By parsing drone broadcast protocol, detailed information such as drone brand, model, SN number, flight speed, coordinates, altitude and pilot coordinates can be obtained. For non-cooperative drones without broadcast protocol, the device can use spectrum detection technology for real-time monitoring and warning. Compared with the integrated device, the receiving antenna of the split-type device can be magnetically attached to the roof of the car, with stronger concealment.

<b>Model</b>	VA-VP-11	
<b>Parameters</b>	<b>Radio Detection</b> <b>Frequency Band:</b> 0.4-6 GHz (Frequencies below 0.4 GHz can be customized) <b>Detection Distance:</b> 4 kilometers (Based on DJI Mavic 3 SRRC standard, line of sight, no significant RF interference) <b>Detection Content:</b> Drone communication protocol and current working band information	
	<b>Protocol Analysis</b> <b>Content:</b> DroneID and RemoteID (O4 requires network connection for parsing) <b>Detection Distance:</b> 4km <b>Detection Details:</b> Drone brand, model, serial number (SN), coordinates, altitude, yaw angle, speed, remote controller coordinates (or return point), etc. <b>Refresh Rate:</b> <3s <b>Number of Drones that can be detected simultaneously:</b> >30	
	<b>Electromagnetic Environment Detection Capability:</b> 400M-6G	
	<b>Protection Level:</b> IP66	
	<b>Power Consumption:</b> < 50W	
	<b>Operating Temperature:</b> -30° C~+55° C <b>Storage Temperature:</b> -40° C~+70° C	
	<b>Power Supply Voltage:</b> 220V AC	
	<b>Volume:</b> Main unit 427 * 332 * 170mm 11kg Antenna unit 187 * 182 * 98.5mm 0.8kg	
	<b>Unit</b>	Set

## Anti-UAV

### Fixed Drone Detection & Locator (Mast Deployment)



VA-Z-10 device is suitable for fixed long-term outdoor deployment for drone detection and supervision. The device has two monitoring methods: protocol parsing and radio spectrum detection. Protocol parsing can perform real-time monitoring on mainstream commercial drones such as DJI. By parsing drone broadcast protocol, detailed information such as drone brand, model, SN number, flight speed, coordinates, altitude and pilot coordinates can be obtained. For non-cooperative drones without broadcast protocol, the device can use spectrum detection technology for real-time monitoring and warning.

<b>Model</b>	VA-Z-10	
<b>Parameters</b>	<b>Radio Detection</b> <b>Frequency Band:</b> 0.4-6 GHz (Frequencies below 0.4 GHz can be customized) <b>Detection Distance:</b> 4 kilometers (Based on DJI Mavic 3 SRRC standard, line of sight, no significant RF interference) <b>Detection Content:</b> Drone communication protocol and current working band information	
	<b>Protocol Analysis</b> <b>Content:</b> DroneID and RemoteID (O4 requires network connection for parsing) <b>Detection Distance:</b> 4km <b>Detection Details:</b> Drone brand, model, serial number (SN), coordinates, altitude, yaw angle, speed, remote controller coordinates (or return point), etc. <b>Refresh Rate:</b> <3s <b>Number of Drones that can be detected simultaneously:</b> >30	
	<b>Electromagnetic Environment Detection Capability:</b> 400M-6G	
	<b>Protection Level:</b> IP66	
	<b>Power Consumption:</b> < 50W	
	<b>Operating Temperature:</b> -30° C~+55° C	
	<b>Storage Temperature:</b> -40° C~+70° C	
	<b>Power Supply Voltage:</b> 220V AC	
	<b>Unit</b>	Set

## Anti-UAV

### Fixed Drone Detection & Locator (Fixed Deployment)



VA-VP-11 device is suitable for fixed long-term outdoor deployment for drone detection and supervision. The device has two monitoring methods: protocol parsing and radio spectrum detection. Protocol parsing can perform real-time monitoring on mainstream commercial drones such as DJI. By parsing drone broadcast protocol, detailed information such as drone brand, model, SN number, flight speed, coordinates, altitude and pilot coordinates can be obtained. For non-cooperative drones without broadcast protocol, the device can use spectrum detection technology for real-time monitoring and warning.

<b>Model</b>	VA-Z-11	
<b>Parameters</b>	<b>Radio Detection</b> <b>Frequency Band:</b> 0.4-6 GHz (Frequencies below 0.4 GHz can be customized) <b>Detection Distance:</b> 4 kilometers (Based on DJI Mavic 3 SRRRC standard, line of sight, no significant RF interference) <b>Detection Content:</b> Drone communication protocol and current working band information	
	<b>Protocol Analysis</b> <b>Content:</b> DroneID and RemoteID (O4 requires network connection for parsing) <b>Detection Distance:</b> 4km <b>Detection Details:</b> Drone brand, model, serial number (SN), coordinates, altitude, yaw angle, speed, remote controller coordinates (or return point), etc. <b>Refresh Rate:</b> <3s <b>Number of Drones that can be detected simultaneously:</b> >30	
	<b>Electromagnetic Environment Detection Capability:</b> 400M-6G	
	<b>Protection Level:</b> IP66	
	<b>Power Consumption:</b> < 50W	
	<b>Operating Temperature:</b> -30° C~+55° C	
	<b>Storage Temperature:</b> -40° C~+70° C	
	<b>Power Supply Voltage:</b> 220V AC	
	<b>Unit</b>	Set

## Anti-UAV

### Portable GNSS Spoofing Device



VA-C-10 is a portable drone GNSS spoofing device, specially designed for low-slow-small drones, featuring light weight, easy portability, and rapid deployment. By transmitting civil satellite navigation simulation signals, it achieves three major functions: active defense, directional spoofing, and area denial. It efficiently solves the flight control problem of commercial low-speed small drones in sensitive areas. Its backpack-style easy portability is very suitable for carrying and deploying in complex environments, providing users with a convenient and efficient user experience. It can cooperate with VA-S-10 to force commercial drones to crash.

<b>Model</b>	VA-C-10
<b>Parameters</b>	<b>Spoofing Frequency:</b> BDS/GPS/GLONASS/Galileo L1 G1 B1 E1
	<b>Transmission Power:</b> ≤ 5W
	<b>Effective Range:</b> 0.5-2km (Adjustable range)
	<b>Total Power Consumption(W):</b> ≤ 50
	<b>Support Mixed Ephemeris:</b> Can work normally in GNSS contaminated areas
	<b>Weight(kg):</b> 8.5kg
	<b>Protection Level:</b> IP65
	<b>Battery Endurance (hr):</b> 4.5
	<b>Dimensions(mm):</b> 540 x 406 x 204; 840 * 406 * 204(antenna raised)
	<b>Antenna Radius(mm):</b> 50
<b>Operating Temperature:</b> -20°C -55°C <b>Storage Temperature:</b> -20°C ~60°C	
<b>Unit</b>	Set



## Anti-UAV

### Fixed GNSS Spoofing



VA-C-11 is a fixed drone GNSS spoofing device with powerful countermeasures capability, ultra-high reliability and stability, longer range, and higher protection level, suitable for long-term deployment in fixed positions. By transmitting civil satellite navigation simulation signals, it achieves three major functions: active defense, directional spoofing, and area denial. It efficiently solves the flight control problem of commercial low-speed small drones in sensitive areas. Integrated linkage with radar, spectrum detection, and jamming guns enables powerful functions such as directional spoofing and drone crashing, truly achieving "combat" effectiveness of 1+1>2.

<b>Model</b>	VA-C-11
<b>Parameters</b>	<b>Spoofing Frequency:</b> BDS/GPS/GLONASS/Galileo L1 G1 B1 E1
	<b>Jamming Frequency Band:</b> Have 1.2G jamming function (L2 L5)
	<b>Transmission Power:</b> ≤ 10W
	<b>Effective Range:</b> 1-5km (Adjustable range)
	<b>Total Power Consumption:</b> 130W
	<b>Protection Level:</b> IP67
	<b>Power Supply:</b> 220v power supply
	<b>Support Mixed Ephemeris:</b> Can work normally in GNSS contaminated areas
	<b>Dimensions (without tripod and antenna):</b> 374 * 300 * 264.5mm
	<b>Dimensions (with antenna):</b> 374 * 300 * 317mm
	<b>Dimensions (with tripod and antenna):</b> 374 * 300 * 317+1546mm
	<b>Antenna Radius(mm):</b> 77
	<b>Weight (kg)</b>
	Total weight (without tripod) : 10 Total weight (with tripod) : 17
<b>Operating Temperature:</b> -20° C~60° C <b>Storage Temperature:</b> -30° C~70° C	
<b>Unit</b>	Set

## Anti-UAV



Portable Radar Detection Device

VA-R-10 is a K-band compact two-dimensional active phased array radar, specially designed for low-altitude drone detection tasks. It is a powerful supplement to the current local air situational awareness capability, suitable for applications with strict lightweight requirements such as portable individual soldier, optical aiming guidance, vehicle active defense, and drone-mounted. Targeted algorithm optimization greatly improves the detection reliability of FPV and small fixed-wing drones. Advanced environmental awareness and clutter suppression algorithms also greatly improve the adaptability of application scenarios.

Parameters	<b>Model</b>	VA-R-10
	<b>Band (GHz)</b>	24.05~24.25
	<b>K-band Maximum signal bandwidth</b>	60MHz
	<b>Scanning method</b>	: AESA active electronic scanning array, azimuth phase scanning, elevation phase scanning
	<b>Waveform mechanism</b>	: FMCW frequency modulated continuous wave
	<b>Detection range</b>	: 650m (Small FPV drone) 1.1km(Micro quadrotor: Phantom4). 1.8km(Agricultural drone) 3km (Large fixed-wing)
	<b>Blind zone</b>	: ≤ 20m
	<b>Radar Field of View (FOV)</b>	: Azimuth 100° , Elevation 45°
	<b>Maximum antenna power</b>	: 7W
	<b>Airspace search cycle</b>	: 2s
	<b>Target refresh cycle</b>	: 100ms
	<b>Tracking number</b>	: 5~10 (TAS) / 200 (TWS)
	<b>Range accuracy</b>	: 2m
	<b>Speed accuracy</b>	: 0.6m/s
	<b>Azimuth accuracy</b>	: 1°
	<b>Elevation accuracy</b>	: 2°
	<b>Speed range</b>	: 0-60m/s
	<b>Weight</b>	: 3kg Dimensions: 205 * 225 * 64mm (without front heat sink)
	<b>Operating temperature</b>	: -40° C~55° C
	<b>Storage temperature</b>	: -55° C -90° C
<b>MTBF</b>	: 20000H	
<b>Power</b>	: ≤ 130W	
<b>Protection level</b>	: IP67	
<b>Unit</b>	Set	

## Anti-UAV

### Medium-Range Active Phased Array Radar (2D Phase Scan)



VA-RP-10 is an X-band pulse Doppler two-dimensional active phased array radar with all-weather high-precision low-altitude flying object hemispheric detection capability. It adopts software-defined method to support multiple types of tasks, suitable for border monitoring, integrated defense, etc. Modular design can provide four-sided array or rotating platform form as needed, facilitating integration into various carrier platforms.

Parameters	<b>Model</b>	VA-RP-10
	<b>Band:</b>	9.2GHz-9.5GHz X-band Maximum signal bandwidth: 15MHz
	<b>Scanning method:</b>	AESA active electronic scanning array, azimuth phase scanning, elevation phase scanning
	<b>Waveform mechanism:</b>	Pulse Doppler
	<b>Detection range:</b>	3.5km (Small FPV drone) 5km(Micro quadrotor) 7.3km (Large multi-rotor)
	<b>Blind zone:</b>	≤ 200m
	<b>Radar Field of View (FOV):</b>	Azimuth: 90°, Elevation: 60° ( Can support 75°)
	<b>Maximum antenna power:</b>	128W
	<b>Airspace search time:</b>	3-4.5s (Configurable, depends on elevation search angle)
	<b>Target refresh cycle:</b>	TWS mode 3-4.5s, TAS mode 0.5s
	<b>Tracking number:</b>	6 (TAS) / 500 (TWS)
	<b>Range accuracy:</b>	10m
	<b>Speed accuracy:</b>	1m/s
	<b>Azimuth accuracy:</b>	0.5°
	<b>Elevation accuracy:</b>	0.5°
	<b>Speed range:</b>	1-100m/s
	<b>Weight:</b>	14kg
	<b>Dimensions:</b>	344 * 342 * 141mm
	<b>Operating temperature:</b>	-40°C -60°C
	<b>Storage temperature:</b>	-50°C -70°C
<b>MTBF:</b>	5000H	
<b>Power consumption:</b>	≤ 320W	
<b>Protection level:</b>	IP66	
<b>Unit</b>	Set	

## Anti-UAV

### Medium-Range Active Phased Array Radar (1D Phase Scan 1D Mechanical Scan)



VA-RP-11 is an X-band pulse Doppler two-dimensional active phased array radar with all-weather high-precision low-altitude flying object hemispheric detection capability. It adopts software-defined method to support multiple types of tasks, suitable for border monitoring, integrated defense, etc. Modular design can provide four-sided array or rotating platform form as needed, facilitating integration into various carrier platforms.

<b>Model</b>	VA-RP-11
<b>Parameters</b>	<b>Band:</b> 9.2GHz-9.5GHz X-band
	<b>Maximum signal bandwidth:</b> 15MHz
	<b>Scanning method:</b> AESA active electronic scanning array, azimuth mechanical scanning, elevation phase scanning
	<b>Waveform mechanism:</b> Pulse Doppler
	<b>Detection range:</b> 3.5km (Small FPV drone) 5km(Micro quadrotor) 7.3km (Large multi-rotor)
	<b>Blind zone:</b> ≤ 200m
	<b>Radar Field of View (FOV):</b> Azimuth: 360°
	<b>Elevation:</b> 60° (Can support 75°)
	<b>Maximum antenna power:</b> 128W
	<b>Airspace search time:</b> 3.2-6s (Configurable, depends on elevation search angle)
	<b>Target refresh cycle:</b> 3-6s
	<b>Tracking number:</b> 500 (TWS)
	<b>Range accuracy:</b> 10m
	<b>Speed accuracy:</b> 1m/s
	<b>Azimuth accuracy:</b> 0.5°
	<b>Elevation accuracy:</b> 0.5°
	<b>Speed range:</b> 1-100m/s
<b>Weight:</b> 26kg (Including turntable)	
<b>Dimensions:</b> 344 * 631 * 141 (Including turntable)	
<b>Operating temperature:</b> -40°C -60°C	
<b>Storage temperature:</b> -50°C -70°C	
<b>MTBF:</b> 3000H	
<b>Power consumption:</b> ≤ 350W	
<b>Unit</b>	Set

## Anti-UAV

### Fixed Radar-Optical Integrated Device



VA-RVP-10 is a core area radar-optical detection system integrating phased array radar and photoelectric detection technology. It does not rely on drone radio signals, ensuring all-weather omnidirectional high-reliability situational awareness. It can provide high-precision position information, accurate target category information, and threat-confirmed video. In addition, SWaP-C and modular design can meet rapid deployment protection in key areas such as prisons and mansions.

<b>Model</b>	VA-RVP-10
<b>Parameters</b>	<b>Radar-Optical Parameters</b> <b>Detection range:</b> 650m (Small FPV drone) 1.1km(Micro quadrotor: Phantom4). 1.8km(Agricultural drone) 3km (Large fixed-wing) <b>FOV Horizontal:</b> 0~360° /Vertical: 0~90° <b>Maximum detected target speed:</b> 60m/s <b>Detection range accuracy:</b> 2m <b>Detection angle accuracy:</b> 0.03° <b>Target lock time:</b> <4s <b>AI target recognition accuracy (drone):</b> 98% <b>Weight:</b> 57.5kg (Radar 4 * 3kg, PTZ-8kg, AGX-12.5kg, Tripod & accessories 25kg) <b>Dimensions:</b> 920 * 920 * 440mm <b>Installation:</b> Mast installation <b>Operating power:</b> <1000w Operating voltage: AC220V <b>Operating temperature:</b> -40° C~+60° C Protection level: IP66
	<b>White-light Camera</b> <b>Sensor:</b> 1/2.8" <b>Focal length:</b> F6.5-312mm <b>Resolution:</b> 1920 * 1080 (FHD) <b>Sensitivity:</b> Color 0.002Lux; B/W 0.0005Lux <b>View angle:</b> 43.5° 26.2--0.85° 0.57° <b>Optical zoom:</b> 48x
	<b>Thermal Camera</b> <b>Detector type:</b> Uncooled LWIR <b>View angle:</b> 8.2° *6.6° <b>Resolution:</b> 640 * 512 <b>NETD:</b> F75mm <b>Focal length:</b> ≥ 40mK
<b>Unit</b>	Set

## Anti-UAV

### Medium-Long Range Drone EO Detection System



VA-ZV-10 is a core area radar-optical detection system integrating phased array radar and photoelectric detection technology. It does not rely on drone radio signals, ensuring all-weather omnidirectional high-reliability situational awareness. It can provide high-precision position information, accurate target category information, and threat-confirmed video.

<b>Model</b>	VA-ZV-10
<b>Parameters</b>	<b>Radar-Optical Parameters</b> <b>Detection range:</b> 3.5km(Small FPV drone), 5km(Micro quadrotor), 7.3km(Large multi-rotor), 10km(Large fixed-wing) <b>FOV Horizontal:</b> 0~360° /Vertical: 0~90° <b>Maximum detected target speed:</b> 100m/s <b>Detection range accuracy:</b> 7m <b>Detection angle accuracy:</b> 0.03° <b>Target lock time:</b> <4s <b>AI target recognition accuracy (drone):</b> 98% <b>Weight:</b> <230kg(Quad array 60kg, PTZ-80kg, Central cabin with accessories 90kg) <b>Dimensions:</b> 1100 * 1100 * 1140mm(Excluding mounting bracket) <b>Installation:</b> Fixed bracket installation <b>Operating power:</b> <1650w <b>Operating voltage:</b> AC220V <b>Operating temperature:</b> -35° C~+55° C <b>Protection level:</b> IP66
	<b>White-light Camera</b> <b>Sensor:</b> 1/1.8" <b>Focal length:</b> F12.3mm-800mm <b>Resolution:</b> 1920 * 1080 (FHD) <b>Sensitivity:</b> Color 0.002Lux; B/W 0.0005Lux <b>View angle:</b> 31.14° 19.4° --0.56° 0.34° <b>Optical zoom:</b> 65x
	<b>Thermal Camera</b> <b>Detector type:</b> Uncooled LWIR <b>View angle:</b> 20.56° 15.48° ~4.12° 3.11° <b>Resolution:</b> 640 * 512 <b>NETD:</b> F30mm-150mm <b>Focal length:</b> ≥ 40mK <b>Optical zoom:</b> 5x
<b>Unit</b>	Set

## Anti-UAV



### Short-Range Fixed Recon-Counter UAV Station

VA-G-10 is a fixed drone countermeasure device integrating reconnaissance and strike capabilities. It can detect and receive drone communication signals to identify drone models. By monitoring drone broadcast information, it obtains key information including longitude/latitude, altitude, speed, yaw angle, model, SN number and pilot position in real time, formulating precise radio countermeasures strategies for different drone types.

Users can quickly view detection information, configure parameters and historical data through C2 system. The device also supports whitelist/blacklist functions. After careful design, it operates stably long-term in various outdoor environments, ensuring continuous reliable protection.

<b>Model</b>	VA-G-10
<b>Parameters</b>	<b>Protocol Analysis</b> <b>Content:</b> Drone ID & Remote ID (O4 requires internet parsing) <b>Detection radius:</b> 3km <b>Display information:</b> SN, coordinates, altitude, yaw angle, speed, remote controller coordinates (or home point)
	<b>Spectrum Detection</b> <b>Band:</b> 0.4GHz~6GHz <b>Detection radius:</b> 4km <b>Display information:</b> Spectrum, protocol (type), current working band, direction <b>Supported models:</b> DJI (Lightbridge, OcuSync), Autel (all models), Parrot, Yunecc, FIMI, etc.; FPV bands: TBS, RUSH, MATEKSYS, IFLIGHT, Walksnail, DJI O3 Air Unit
	<b>Radio Interference</b> <b>Band:</b> 04GHz~6GHz (Software-defined) <b>Counter radius:</b> 3km
	<b>Reliability</b> <b>Protection level:</b> IP67 Operating temperature: -40°C ~+60°C
	<b>Dimensions:</b> 508x261.5x450.5mm(LxWxH)
	<b>Weight:</b> 10.2kg
	<b>Precision strike capability</b> (Can selectively strike one of two identical DJI drones like Mavic3 approaching in same direction)
	<b>Unit</b>

## Anti-UAV



Portable C2 Control System

VA-S-10 is an advanced Command and Control (C2) system tablet with excellent data processing, monitoring and analysis reporting functions. It operates stably under various natural environmental conditions, providing all-weather, all-terrain drone defense capability.

<b>Model</b>	VA-S-10
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C2 Control System (Windows Version)

VA-S-10 PC supports multiple mainstream computer operating systems, widely adapting to various computer environments. The system can be integrated with Counter-UAS products through intranet or wired connection, ensuring high-level information security while providing real-time situational awareness and deep data analysis functions.

Supports 24/7 unattended operation. Can connect with ZK-S-10 and multi-client information sharing to achieve background information coordination. Optimal solution for core area control.

<b>Model</b>	VA-S-10
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## Anti-UAV



Low-altitude Security Command Control System

VA-S-20 is an intelligent cloud-based command and control system with unlimited compatibility, capable of integrating full series Counter-UAS products.

Through data fusion technology, it achieves equipment coordination for hierarchical defense. Users can precisely control equipment at remote centers for wide-area command dispatch. Additionally, ZK-S-20 Cloud supports flexible deployment, compatible with private clouds (on-premise) and public cloud platforms (Azure, AWS), meeting various levels of information security requirements.

Using cutting-edge technologies like 3D simulation, sensor fusion, and computer vision, it provides highly realistic visual situational awareness, real-time data analysis and dynamic threat assessment. Supports 24/7 automatic operation, reducing human error and ensuring continuous air security. Its technology integration and automation functions make it a powerful tool for wide-area security.

<b>Model</b>	VA-S-20
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**Situational Awareness:** Intelligently fuses multi-source sensor data (radar, EO, spectrum detection, protocol analysis) to accurately present real-time height, speed, model, azimuth, pilot coordinates, constructing 3D target profiles and scenes, ensuring rapid understanding of regional situations

**Electronic Fence & Alerting:** Supports customizable defense zones. Users configure alert rules and auto-response per zone, using multiple alarms to track airspace threats

**Intelligent Decision-making:** AI & big data enhance detection, tracking, identification, assessment, countermeasures. Dynamically plans optimal solutions based on threat level and equipment deployment, achieving unmanned operation.

**Data Cockpit:** Comprehensive dashboard displays global/regional statistical data, analyzes intruding drone types, trajectories and behaviors. Provides equipment deployment optimization suggestions based on historical data analysis.

**Timeline & Event Replay:** View full-process event replay. Export replay data for analysis and reporting.

<b>Unit</b>	Set
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## Anti-UAV

### Airborne Drone Detection & Locator

The Drone Pilot Positioning Solution aims to address the detection and localization of drone pilots and interference sources in scenarios without broadcast protocols (Drone ID and Remote ID). The solution utilizes a drone-mounted high-precision radio 2D direction-finding device to perform azimuth and elevation direction finding on target signal sources (including drone remote controllers and radio jamming devices) from the air, identifying possible target areas and displaying them on a map. Visual search combined with AI recognition assistance in the target area discovers and locks the target. Additionally, the carrier drone possesses anti-radio interference capability, ensuring stable operation of the solution in complex radio environments.



<b>Model</b>	VA-F-10
<b>Parameters</b>	<b>Flight Platform</b> <b>Dimensions:</b> 1205×980×278mm (Deployed)/455×263×248mm (Folded) <b>Weight:</b> 6.63kg (Total) <b>Max Takeoff Weight:</b> 8.4kg <b>Hover Time:</b> >30min <b>Max Flight Time:</b> >32min <b>Video Range:</b> >6km
<b>Unit</b>	Set



<b>Model</b>	VA-W-10
<b>Parameters</b>	<b>Detection Module</b> <b>Dimensions:</b> 112×122×55mm <b>Weight:</b> 707.5g <b>Detection Range:</b> 3km (LOS) <b>Success Rate:</b> ≥ 99% <b>Bearing Accuracy:</b> <3° (RMS) <b>Simultaneous Targets:</b> ≥ 6 <b>Targets:</b> DJI Mavic/Air/Mini, Autel Evo <b>Temp Range:</b> -20° C~50° C <b>Frequency:</b> 2.4/5.2/5.8GHz (1.5G customizable) <b>IP Rating:</b> IP65 <b>Power:</b> <20W <b>Functions:</b> Pilot/Jammer location
<b>Unit</b>	Set