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# Roc Martin

## Product Introduction

# 01

## Company Introduction



Roc Martin Technologies Co., Ltd is a well-known industrial-grade UAV and UAV counter-system innovation and development high-tech enterprise at home and abroad. Products such as inspection drones, aerial survey drones, environmental drones, plant protection drones, drone detection, interception equipment and systems, and drone airborne equipment operated by Roc Martin. It is widely used in urban management, land monitoring, emergency rescue, traffic supervision, geographic information, social security, energy inspection, environmental testing and other fields.



# 02

## Main Products

UAV Customization   UAV Mounting Equipment   Unmanned Aerial Vehicle Reaction Equipment



## FS100 Heavy duty long endurance VTOL fixed wing UAV



**Size:** wingspan: 6.12m、Aircraft commander: 3.57m  
**Maximum take-off weight:** 115kg  
**Maximum load capacity:** 40kg(Fuel oil+Mission load)  
**Fuel tank volume:** 38L  
**Take-off and landing model:** Vertical take-off and landing  
**Endurance time:** 8~10h  
**Power:** Hybrid power  
**Economic cruising speed:** 100km/h  
**Wind resistance:** 6level  
**Control radius:** 50km/100km/selectable  
**Positioning mode:** GLONASS/GPS/Beidou multi-mode  
**Directional mode:** Two-antenna orientation+Magnetic compass redundant orientation

**Vertical take-off and landing**  
 Composite wing design, with vertical takeoff and landing ability, flexible choice of landing site  
**Rapid deployment**  
 Fast deployment, removal and packing, with the ability to quickly carry out tasks  
**Heavy duty long endurance design**  
 Heavy-duty design, can be combined with flight duration refueling, with the integration of multiple mission payloads and long endurance flight capabilities

## FS50 Long endurance VTOL fixed wing UAV



**Size:** wingspan: 4.60m、Aircraft commander: 2.23m  
**Maximum take-off weight:** 59kg  
**Maximum load capacity:** 18kg(Fuel oil+Mission load)  
**Fuel tank volume:** 18L  
**Take-off and landing mode:** Vertical take-off and landing:  
**Endurance time:** 6~8h  
**Power:** Hybrid power  
**Economic cruising speed:** 100km/h  
**Wind resistance:** 6level  
**Control radius:** 50km/100kmselectable  
**Positioning mode:** GLONASS/GPS/Beidou multi-mode  
**Directional mode:** Two-antenna orientation+Magnetic compass redundant orientation

**Vertical take-off and landing**  
 Composite wing design, with vertical takeoff and landing ability, flexible choice of landing site  
 The whole machine modular quick disassembly design  
 The whole machine modular and quick disassembly design, simple and convenient operation  
**Rapid deployment**  
 Quickly deployable, withdrawn and packed, the SUV can be transported with the back seat down, with the ability to quickly carry out tasks  
**Long endurance design**  
 High lift-drag ratio laminar flow airfoil, tail thrust engine for inspired integrated electric injection engine, with 6~8h long endurance



## SC200 Heavy duty long endurance fixed wing UAV



**Size:** wingspan: 8.00m、Length: 6.08m、Altitude 1.66m  
**Maximum take-off weight:** 220kg  
**Maximum load capacity:** 50kg  
**Load compartment capacity:** 300L  
**Take-off and landing mode:** Running takeoff and landing  
**Endurance time:** ≥12h@50kgload  
**Maximum range:** 2400km  
**Maximum flight altitude:** 4500m  
**Economic cruising speed:** 140km/h  
**Maximum airspeed:** 165km/h  
**Control radius:** 120km  
**Positioning mode:** GLONASS/GPS/Beidou multi-mode  
**Directional mode:** Two-antenna orientation+Magnetic compass redundant orientation

### Long endurance design

High lift-drag ratio laminar flow airfoil, tail thrust engine for inspired integrated electric injection engine, with more than 12h endurance

### Heavy-duty design

Heavy-duty design, larger mission cabin capacity, can integrate a variety of mission loads, applied to a variety of mission scenarios

### Rapid deployment

It can achieve rapid deployment, withdrawal and deployment, and has the ability to quickly carry out tasks

### Multiple application scenarios

It can integrate various mission payloads such as photoelectric pods and SAR, and is suitable for multiple application scenarios such as reconnaissance and inspection

### Industrial high precision flight control + graphics integrated communication link

The flight is more stable, the response is more accurate and rapid, and the real-time transmission of high-definition images in the pod can be

## SC30 day hook recovery fixed wing UAV



**Size:** wingspan: 3.6m、Length: 1.64m  
**Maximum take-off weight:** 32kg  
**Maximum load capacity:** 6kg  
**Take-off and landing mode:** Catapult takeoff & Skyhook recovery  
**Endurance time:** 8~10h@, Full load  
**Dynamic form:** Oil motor (gasoline/jet fuel)  
**Cruising speed:** 100km/h  
**Wind resistance:** 7level  
**Control radius:** 50km/100kmselectable  
**Positioning mode:** GLONASS/GPS/Beidou multi-mode  
**Directional mode:** Two-antenna orientation  
**+Magnetic compass redundant orientation**  
**Packing size:** 169cm×95cm×47cm

### Flexible take-off and landing

It adopts the take-off and landing mode of short ejection and vertical rope blocking recovery, and the take-off and landing process does not depend on the runway

### Strong site adaptability

It can perform flight tasks on complex terrain, vehicles, islands and shipborne mobile platforms  
 Long endurance design

Laminar flow airfoil with high lift to drag ratio, aero-piston engine is selected for tail-thrust engine, with long endurance of 8~10h

### Better mounting capability

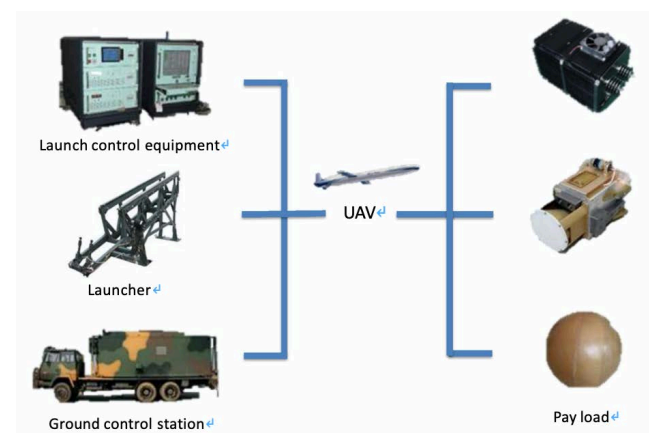
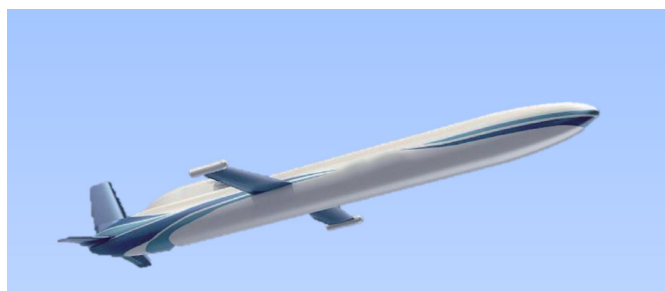
The rotor part without composite wing has negative weight, greater mounting capacity and less flight resistance

### Professional maritime application scenarios

It can take off and land on islands and reefs and shipborne mobile platforms, and is widely used in Marine military intelligence reconnaissance, fishery resource protection, offshore patrol, ocean fish detection and other Marine application scenarios



## K-500 Sub-sonic Stealth UAV



**Size of UAV:**Length: 4.15m,Wingspan: 1.3m

**Cruise Speed:** 250m/s (900km/h)

**Altitude:** 3~8000m (3~5m sea-skimming over 30km)

**Endurance Time:** 1h

**Max. Take-off Weigh:** 235kg

**Payload:** 30kg

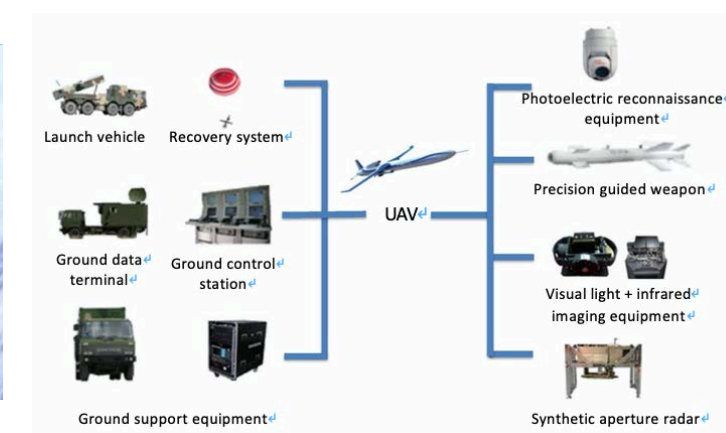
**RCS Simulation Capability:** 0.03m<sup>2</sup>-5m<sup>2</sup>

**Take-off/landing mode:** Parallel-rocket-booster launch; parachute landing + airbag recovery

**Engine:** Turbojet engine

The K-500 is a multi-tasking high sub-sonic speed stealth UAV designed based on cruise missile. When used as a combat UAV, its ultra fast speed, low altitude sea-skimming capability and strong stealth capability make this UAV a sharp defense penetrator. When a more critical target is identified during a mission, it can change flight path anytime according to the control command. It can carry different types of mission equipment for reconnaissance tasks as well.

## K-600AD Sub-sonic Stealth UAV



**Size of UAV:** Length: 6.6m Wingspan: 5.8

**Airframe diameter:** 0.54m

**Cruise Speed:** 500 ~ 700km/h

**Ceiling:** 8000m

**Endurance Time:** 5h (without missile loaded)  
/3.2h (with missile loaded)

**Max. Take-off Weight:** 1100kg

**Payload:** 150kg

**Carrying Capacity:** 2 small precision guided weapons

**Stealth Capability:** 0.1m<sup>2</sup>-0.5m<sup>2</sup>

**Take-off/landing mode:** Parallel-rocket-booster launch; parachute / landing + airbag recovery

**Engine:** Turbofan engine

As a high sub-sonic speed stealth UAV, the K-600A/D UAV features fast speed and good stealth capability, which enable this UAV with strong defense penetration capability. It can carry photoelectric reconnaissance equipment, small precision guided weapons and other types of equipment to conduct missions like reconnaissance, strike, damage effect assessment, etc.

- Fast – 700km/h
- High Altitude – 8000m
- 2 precision guided weapons
- Good stealth capability
- Reconnaissance + Strike + Damage Assessment



# X20 Heavy Duty FPV



**Maximum load: 1.8kg**

**No-load endurance: 30min**

**Mounting endurance : 15min**

**Cruising speed: 0~12m/s**

**Communication distance: 5km~10km**

**Wind resistance :12m/s(Grade 6)**

**Flight mode: automatic, semi-automatic**

**Work temperature: -20°C~60°C**

**protection level : IP65**

Light weight: empty machine weight is only 410g (without battery)

Fast speed: the maximum flight speed is 80km/h,

High load: maximum load 1.8kg

Flight time: Aircraft flight time limit is up to 30 minutes

Long range: The maximum remote control distance is 10km

Personalized configuration: set up individual frequency bands and transmission according to user's needs)

# R400 Multipurpose Drone



**Maximum load : 3kg**

**Maximum takeoff weight :7kg**

**No-load endurance :63min**

**Mounting endurance :30min Cruising**

**Speed :0~27m/s**

**Max Flight Altitude :5000m**

**Communication distance: 15km wind**

**resistance 12m/s(Grade 7)**

**Flight mode: automatic, semi-automatic**

**Work temperature -20°C~60°C**

**Protection level: IP45**

Features (light weight and size: the wheelbase after folding is only 580cm

High compatibility: modularization of various types, installation of throwing equipment, photovoltaic modules, etc.

Transmission distance: The maximum transmission distance is 40km (optional extra long distance communication module)

Inter-barrier communication: multi-machine relay network to work in difficult terrain

Flight time: Aircraft flight time limit is up to 60 minutes

Ultra-clear infrared: 1k dual illumination infrared lens, 1280\*1024 infrared pixel

Intelligent system: automatic target recognition, motion analysis



## 6M Multi-functiona six-rotor series UAV



Product model:6M-1600

Product wheelbase:1600mm

No-load flight endurance :85min

Time Mount endurance:46min(4.8kg)

Maximum takeoff weight : ≤22kg

Empty weight:6.6kg (Excluding battery and mounting equipment)

Flight mode : Full automatic/semi-automatic

Six Rotors Uav/Drone of 6X-520 with High Accuracy

Wind resistance : 12m/s (Grade 6)

Altitude ceiling:5000m

Communication:5km-10km

Working temperature:-20~60°C

Protection grade : IP54

6M-1600 UAV is an industrial-grade six-rotor UAV. The drone body is made of carbon fiber with light weight and the arm adopts a convenient and safe plug-in structure. The whole machine is rainproof and dustproof, and has super load capacity. It can be equipped with different mountings including speaker, infrared zoom cameras, and tilting camera system, it can provide services for different industries such as public security, fire protection, and electric power in complex environments.

## 6X-520 Commercial six-rotor UAV



Product model:6X-520

Flight wheelbase:520mm

Propeller weight:Quick release

Takeoff weight:1892g (no mount)

Flight endurance:≤30min

Battery type:6200mAh 4S

Working Temperature:0°C~40°C

Payload:1kg

Wind resistance level:Grade 7

Maximum flying height:500m

Maximum take-off altitude:5000m

Maximum climbing speed:7m/s

Maximum descending speed:5m/s

Maximum horizontal speed:18m/s

Maximum rotation rate:120°/s

Maximum roll angle:35°

The 6X-520 is an industry-grade six-rotor UAV specially developed for commercial purpose. It is a reliable, powerful and foldable UAV flight platform, adopts a long-endurance integrated package solution. The 6X-520 UAV is also a multipurpose tool for search and rescue teams, patrol personnel, police, firefighters and survey teams, and it plays an important role in various industries.



## ZA-30 Large payload series UAV



Maximum load: <30kg  
 Maximum flying weight: 80kg  
 No-load endurance: 15min  
 Mounting endurance : 6min(30kg)  
 Cruising speed: 0~12m/s  
 Max Flight Altitude: 4500m  
 Communication distance: 5km~10km  
 wind resistance :12m/s(Grade 6)  
 Flight mode: automatic, semi-automatic  
 Work temperature: -20°C~60°C  
 protection level : IP65

The ZA-30 body frame is formed in one , the structure is simple, the strength is high, with very good durability and reliability.which maximum load of 30kg. The arm adopts cross staggered folding mode to minimize the folded size and facilitate transfer transportation. Multi-model collocation to meet the different needs of customers. The whole machine is waterproof, waterproof grade reaches IP65, can be directly washed with water.

## H100/H200 multi-rotor heavy-duty UAV



Maximum load : 100kg  
 Maximum takeoff weight :230kg  
 No-load endurance :60min  
 Mounting endurance :30min  
 Cruising speed :12m/s  
 Max Flight Altitude :3000m  
 Communication distance: 15km wind resistance 12m/s(Grade 7)  
 Flight mode: automatic, semi-automatic  
 Work temperature -20°C~60°C

Features (heavy load: maximum load 100kg/ 200kg)  
 Rich configuration: it can load various types of universal modules, which are widely used in transporting heavy objects, accurately delivering fire bombs, etc.  
 Transmission distance: The maximum transmission distance is 40km (optional extra long distance communication module)  
 Flight time: full load 100kg, the maximum flight time is up to 28 minutes



## AUR-30 Monitor & Detection Radar



The AUR-30 is a rapidly deployable multifunctional surveillance radar. It adopts the Ku-band continuous wave phased array system, which can detect flying targets and provide various parameter information of the target, such as distance, azimuth, altitude and speed. It can track the target after it finds it, and display the target track on the terminal interface in real time, and send it to the weapon system to provide target indication.

- Working band: Ku
- Detection distance:  $\geq 20\text{km}$
- Operating Temperature:  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- Protection level: IP66
- Installation mode: fixed/portable/vehicle-mounted
- Azimuth coverage (horizontal):  $0^{\circ} \sim 360^{\circ}$

## AUR-80 Monitor & Detection Radar



AUR-80 is a multi-functional battlefield surveillance radar that can be quickly deployed. It adopts the X-band continuous wave system. It mainly searches and detects ground active targets, and also takes into account the reconnaissance and detection of low-altitude targets. It is mainly used for alerting and reconnaissance in the combat area. It can automatically detect and locate moving ground personnel (single and crowd), vehicles, drones, small aircraft and other targets

- Working band: X
- Detection distance:  $\geq H\text{km}$  ( $\text{RCS} = 0.01\text{m}^2$ )  
 $\geq 1\text{km}$  (Armed single soldier/  $\text{RCS} = 2\text{m}^2$ )  $\geq 1.1\text{km}$  (vehicle/  $\text{RCS} = 5\text{m}^2$ )
- Distance measurement accuracy:  $\leq 8\text{m}$
- Azimuth accuracy  $\leq 0.3^{\circ}$
- Distance resolution  $\leq 5\text{m}$
- Azimuth range:  $0 \sim 360^{\circ}$
- Operating Temperature:  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$

## AUI-100 Cooled Photoelectric Tracker



photoelectric equipment adopts self-developed multi-objective feature recognition and target intelligent tracking and complex background target detection technology, to achieve the target confirm, identify, lock and track and other functions, at the same time in the linkage work take evidence of intrusion and harassment.

- ▽ Infrared detection distance:  $\geq 1\text{KM}$
- ▽ Visible light camera sensor type: 1/2" Progressive Scan CMOS Camera pixels: 2 million
- ▽ Camera video resolution: 1080P
- ▽ Detector Type: Cooled Focal Plane Array Detector (MCT)
- ▽ Detector effective pixels:  $640 \times 512$
- ▽ Detector spectral range:  $3.7 \sim 4.8\mu\text{m}$  Operating Temperature:  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$

## AUI-200 Uncooled Photoelectric Tracker



AUI-200 photoelectric equipment adopts self-developed multi-objective feature recognition and target intelligent tracking and complex background target detection technology, to achieve the target confirm, identify, lock and track and other functions, at the same time in the linkage work take evidence of intrusion and harassment.

- Visible light detection distance:  $\geq 5\text{ km}$
- Infrared detection distance:  $\geq 2\text{km}$
- Video resolution: 1080P, support three streams
- Infrared detector type: Uncooled
- Spectral range:  $8 \sim 14\mu\text{m}$
- Turntable horizontal angle:  $360^{\circ}$ , unlimited continuous rotation
- Operating Temperature:  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$



## AUW-1000 Navigation Decoy Device



The navigation decoy device conducts navigation deception to the UAV by emitting simulated satellite navigation signals, so that the UAV will have the illusion of speed out of control, so as to drive the flying UAV away and return, stay away from the defensive area, prevent it from flying into sensitive areas, control The purpose of the black flying drone.

- Working frequency band: cover GPS, BD, GLONASS, Galileo satellite navigation frequency bands, interference frequency bands are optional
- Jamming distance: 5-10km (adjustable)
- Transmitting power:  $\leq 5W$  (transmit power can be increased or decreased according to the user's needs)
- Antenna transmission mode: omnidirectional (or customized according to customer needs)

## AUM-100 4G/5G UAV Jamming Device



There are UAV equipped with 4G/5G communication modules nowadays, the ground remote controller can communicate with the UAV with the help of 4G/5G network and maintain the stable communication signals when flying in complex environments such as cities and mountains. AUM-100 4G/5G UAV jamming equipment can counter UAV with 4G/5G communication.

- Jamming distance:  $\geq 300 \sim 800m$  (Jamming distance increases or decreases depending on the density of communication base stations)
- Detection azimuth:  $360^\circ$
- Working time: 8h/7\*24h (Battery/Mains electricity)
- Operating Temperature:  $-40^\circ C \sim 70^\circ C$

## AUF-400 FPV Detection & Jamming



AUF-400 is to complete the directional detection of FPV targets in the air, which can quickly identify the image transmission signals of UAVs and can effectively detect UAVs outside the line of sight.. After the jamming function is turned on, it can make the UAV lose the control signals quickly, ensuring the safety of the protected airspace.

- Detection distance:  $\geq 3km$
- Detection frequency band:  $5 \sim 6GHz$
- Jamming frequency band: Automatic jamming according to the detection frequency band
- Beam width: azimuth  $\geq 30^\circ$ , pitch  $\geq 30^\circ$

## AUJ -50 Directional jammer Device



AUJ-100 directional jamming equipment adopts intelligent and efficient jamming suppression method, the acceptance and processing of the picture transmission, remote control and navigation signals of UAV, carry out interference blocking, achieve forced return, forced landing, drive away and other countermeasures, quick and effective disposal of suspicious UAV.

- The interference distance : 3km~5km
- Interference band: 1.6GHz/2,4GHz15.8GHZ (Extensible frequency band)
- Jamming beam width :  $10^\circ \sim 20^\circ$
- Azimuth coverage (horizontal):  $0^\circ \sim 360^\circ$  Pitch coverage (vertical) :  $-40^\circ \sim 70^\circ$



## AUW-50 Early warning positioning detection system



Weight: 5kg  
Monitoring frequency: 300MHz to 6000MHz  
Detection distance  $\geq 2\text{km}$   
Working mode : setup; vehicle-mounted  
Protection level : IP66

AUW 50 UAV early warning and positioning system adopts self-developed TDOA position technology, can realize 24 hours all-weather layout of regional protection, can be the city "Low, slow and small" drones in complex environments for "long-range warning, Accurate position, full tracking, automatic interception, efficient control and full-time guarding .

## AUW-200 Navigation Decoy



Decoy distance: 1km  
Control range :  $360^\circ$  without occlusion  
Signal transmission power  $\leq 10\text{dBm(mW)}$   
Transmitted navigation signal system: GPS, GLONASS, BDS  
Power consumption of the whole machine :  $\leq 20\text{W}$

AUW-200 navigational decoy device by transmitting simulated satellite navigation signals, Uav traps location, speed and time. Equipment passage implement different deception strategies on UAV navigation terminal to achieve the realization of UAV drive away, crash landing, course guidance and other functions. The system combines radar and wireless electrical detection means can accurately guide the UAV to land at the designated place.

## AWC-30 Omnidirectional Jammer

Size: 345mmX155mmx1360mm  
Weight: 12.5kg  
The transmitting band : 1.6Ghz/ 2.4Ghz/ 5.8Ghz  
Interference distance:  $\geq 3\text{km}$   
Working mode : bracket; portable hand; backpack  
Protection level: IP66

AWC-30 multiband omni-directional jammer consists of antenna array and omni-directional jamming equipment, signal processing equipment, the system uses narrow bandwidth and small power precision  
The combination of quasi - strike and high - power omni-directional jamming, unmanned for black flight  
The remote control link, the graph transmission link and the navigation signal are interrupted ,To force to land or drive away.



## AWC-10 Navigation Decoy Device

Decoy distance: 500m  
Driving distance :  $> 1\text{km}$   
Control range level  $360^\circ$ ; Vertical  $90^\circ$   
Signal transmission power  $< 6.5\text{ dBm (mW)}$   
Transmitted navigation signal system: GPS, GLONASS, BDS  
Power consumption of the whole machine  $< 25\text{W}$

AWC-10 navigation decoy device consists of omnidirectional antenna, host and system software composition. Spoofing messages by regenerating no less than two frequencies of satellite navigation , the satellite navigation seat received by the UAV using satellite navigation positioning , the message is spoofed.





## AUC-100 Handheld Detection Device



AUC-100 handheld detection equipment is mainly used for signal detection and location identification of UAV communication links, and can display the serial number, model, location, speed, altitude, trajectory and remote control position of the UAV. It can effectively realize the monitoring and alarming of low altitude UAV in all-weather environment.

- Detection frequency band: Covering 25MHz~6000MHz
- Detection distance:  $\geq 3\text{km}$  (directional)
- Direction finding accuracy:  $\leq 20^\circ$
- Working time: 5 hours

## AU-50 UAV Jamming and Detection



AU-50UAV Jamming and detection equipment is mainly used for terminal protection in sensitive areas such as petrochemical, power systems, energy bases and military bases. It can continuously detect and identify the remote control signal and image transmission signal of the drone at  $360^\circ$  without dead angle for 7×24 hours, and quickly detect and find the target. By launching simulated satellite navigation signals for navigation spoofing, the UAV will have the illusion of out of control, so as to drive the approaching UAV away, stay away from the defensive area, and prevent it from flying into sensitive areas.

### Features

The system transmission power complies with the technical specifications and requirements of the relevant industry, the protection area is controllable.

The equipment has a friendly human-machine interface, which can realize 24-hour unattended protection in the deployment area.

The system is based on IP design, it can be connected to the established security system to realize joint deployment and control.

The equipment has high modularity, simple operation, convenient maintenance, good reliability and maintainability.

The equipment can be erected on the top of the mountain, building, or on a vehicle with a fixed platform, which is flexible and convenient to use.

### Specification

Detection frequency band: 20MHz~6GHz

Detection distance:  $\geq 5\text{km}$

Detection angle:  $0^\circ \sim 360^\circ$

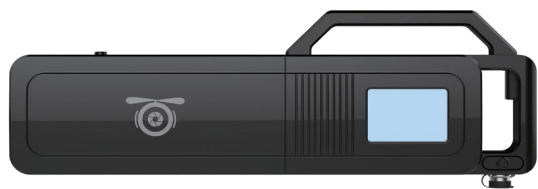
Jamming frequency: Cover GPS, BD, GLONASS, Galileo satellite navigation frequency, the jamming frequency can be selected

Transmitting power:  $\leq 10\text{dBm}$

Jamming distance: 0~1000m (adjustable)



## Drone jammer F90S



F90S counter-drone equipment (not anti-drone equipment type) has small size and ight weight, it is easyto carry by nand or on back, it supports background management system.It has external double batteries that are easy to replace and ensure continuous work in the field. It can force landing and driving away of unlicensed flying drones without approval.

- Product model : F90S
- Product size:510x120x55mm
- Working time : ≥ 6 hours
- Working temperature :-20°C~50°C
- Jamming frequencies:0.9/1.6/2.4/5.8GHz
- Protection level:IP20 (Protection level is improvable) Main machine weight : 2050g (without battery) Battery weight: 880g
- Jamming distance :≥1500m
- Respond time : ≤3s

## Drone counter gun F-069



F-069Anti-Drone Equipment is a portable drone defense product. It can force UAV toland ordrive awayto ensure the safety oflow altitude airspace by cutting off the communication and navigation between UAV and remote controller, and interferingwith thedata linkand navigation link of UAV. The product has small size and light weight, it is easy to carry and it supports the background management system.It can be deployed efficiently as requirements and needs. It is widely used in airports,prisons,waternuclear power plants, government agencies, important conferences,large gatherings, sports events and other important places.

- Product model:F069
- Product size:752x65x295mm
- Working time : ≥4 hours
- Working temperature : -20°C~45°C
- Jamming frequencies:0.9/1.6/2.4/5.8GHz
- Protection level :IP20 (Protection level is improvable) Main machine weight : 2830g (without battery) Battery capacity:6400mAh
- Jamming distance:≥2000m
- Respond time : ≤3s

## Directional Jamming shield PD-1



- weight : 5580g
- Product size:360x359x155mm (without battery)
- Working time: Continuous work for 2 hours Working temperature:-20°C~45°C
- Level of protection : IP20(improvable)
- Jamming angle: ±15°
- Jamming distance:>2000m
- Jamming respond time:≤10s Jamming frequencies: 0.9/1.4/1.6/2.4/5.8GHz(expandable frequencies)

PD-1 multi-band directional drone signal jammer shield integrates countermeasures,display control and data uploading in one, it solves the problems ofless interference frequency bands, no data transmission and no backstage management of traditional hand-held jammer. It has small size, light weight,good mobility, it is suitable for important meetings, large-scale activities, dailypatrolandotherlow-altitude protection needs. It realizes a new urban UAV supervision network integrating with information and intelligence through multi-level interconnection of wireless network, command terminal of control system and comprehensive command platform, and distributed deployment of other UAV countermeasures equipment.

## Mini UAV detector ZC-01



- Size :284mmx90mmx55mm(including clasp)
- Weight :380g
- Receiving frequency bands: 2.4GHz and 5.8GHz The detection range : 0 ~ 1500m
- Working mode: handheld
- Working hours >5h
- Protection level: IP55

The ZC-01mini is a portable wireless signal detector for unmanned aerial vehicles ,the product can be installed in front of the portable UAV jammer End position, effectively and accurately identify the wireless signal of the UAV ahead, and pass alarm mode can effectively improve the performance of UAV jammer ,can provide UAV azimuth, frequency, signal strength and so on for countermeasure equipment to improve the accuracy of UAV countermeasures.



## 30 times three-light tracking pod Q-30TM



Q-30TM is a professional high precise three-axis stability augmentation zoom camera gimbal for drone. It adopts high-precision encoder FOC control scheme, 30x optical zoom, 1500m laser ranging, 640 x 480 thermal imaging pixels, and supports tracking. It has the characteristics of high stability, small size, light weight and low power consumption.

- Product model: Q-30TM
- Product size : 157X136X172mm
- Product weight: 1280g
- Support zoom: Support
- Visible light zoom times: 30 times
- Temperature measurement range: -20°C~120°C
- Pixels: 2.13 million
- Laser ranging: 5m~1500m
- Memory card support: Support
- Target tracking: Max 128 G

## 30 times Zoom tracking pod Model Q-30T



- Size: 149mmx103mmx138mm
- Weight : 640g
- Visible light zoom times: 30 times
- Total pixels: 4 million
- Working voltage: 12V
- Output mode : 1080p micro HDMI/AV
- Image sensor: 1/3 "CMOS
- Local storage (Max ) : 32 GB

Q-30T is a high-precision professional triaxial stabilization zoom pod, using High precision encoder FOC control scheme, with high stability, volume Small, light weight, low power consumption.

## 30 times dual light Camera Video S-30T



S-30T is a mountable product integrating infrared thermal imaging movement and high-definition zoom movement in one with advanced PTZ control system, it has pointing movement, pointing zoom, pointing focus, pointing temperature measurement, regional temperature measurement, high temperature alarm, high temperature tracking temperature measurement calibration, automatic inspection, 12 kinds of color plate and other functions.

- Product model: S-30T
- Product size: 127X164X173mm
- Product weight: 1230g
- Support zoom: Support
- Thermal imager: 640 x 480, 25mm lens, 25Hz
- Temperature measurement range: -20°C~120°C
- Total pixels: 2.13 million
- Video resolution: 1920x1080
- Target tracking: Support
- Memory card: Max support 128 G

## Thermal imaging camera QIR-19

- Product model: QIR-19
- Product size : 105x91x98mm
- Product weight : 440g
- Thermal imaging lens: 19mm
- Temperature measurement range: -20°C~120°C
- Thermal imaging pixel: 640x480
- Output way: 1080P micro HDMI / AV
- Target tracking : Does not support
- Local storage (Max): 128G



QIR-19 thermal imaging gimbal is a mounted product. It is composed of a thermal imaging core and an all-aluminum alloy three-axis shock-absorbing gimbal and equipped with a brand-new quick release interface, it is suitable for many types of UAVs of our company.



## Multi-spectral camera type DGP-5



Size: 79mmx74mmx52mm  
Weight: 275g  
The voltage : 6V~30V DC  
Video resolution: 1280x960  
Field Angle : 49.6° HFOV:38°VFOV  
Sensor type: 1/3 inch CMOS  
Ground space resolution : 8.65cm@h=120m  
Image storage format: 16 bits TIF format, JPEG  
The storage card max support : 128GB

DGP-5 multispectral camera can realize up to 6 channels of spectral image data The simultaneous acquisition, 17 wavelength filter optional configuration to meet the accuracy Agriculture and forestry, water conservancy ecology, emergency monitoring and other different industry application needs. which include the camera host, downlink optical sensor (DLS), GPS module.

## Five-lens tilt camera G-5S



total pixels: 120 million  
Single-lens pixels: 24.3 million  
Pixel 3.92μm  
Hot boot signal: have hot boot signal  
Exposure interval :0.8s  
ISO sensitivity range: 100~16000  
Image resolution: 6000x4000  
Data storage: 320 GB  
The shutter speed ranges : 1/4000s ~ 1s  
The lens : orthographic 25mmx1/ tilted 35mmx4  
Power consumption 20W ~ 26W  
Supply power: 12V ~ 24V

DGP-5 multispectral camera can realize up to 6 channels of spectral image data The simultaneous acquisition, 17 wavelength filter optional configuration to meet the accuracy Agriculture and forestry, water conservancy ecology, emergency monitoring and other different industry application needs. which include the camera host, downlink optical sensor (DLS), GPS module.

## Positive aerial survey camera ZS-6100



Size: 136mmX76mmx61mm  
Weight: 360g  
Exposure time≥0.8s  
effective pixels: 61 million  
Lens bayonet : E bayonet  
Lens focal length: 40/56mm fixed focus (replaceable)  
Image resolution :9504x6336  
Sensor size: 35.7mmx23.8mm  
The storage card max supports : 256 GB

ZS-6100 positive aerial survey camera, ultra-lightweight body, easy to carry, perfect for the market of multiple multi-rotor, vertical fixed wing UAV. The camera synchronizes the flight picture with the ground in real time, and transmits the real-time picture with both static and static screens. The shortest exposure time of the camera can be up to 0.8s.

## Lidar JG-10



Weight: 4.5kg  
Absolute accuracy : -5cm~5cm  
Attitude accuracy: 0.005°  
Orientation accuracy: 0.010°  
Max field Angle 330°  
Angular resolution 0.001°  
Maximum measured distance 1350m@60%  
Max effective measured speed : 750000 points /s  
Laser safety level: I degree

JG-10 lidar takes rotowing UAV platform as the carrier and integrates high-precision laser scanner, GPS, IMU and other sensors. Supported by time synchronization technology and integrated multi-sensor integration technology, it synchronizes 3D laser point cloud and positioning and pose data. Through equipped data processing and application software, DSM and DEM can be generated rapidly. To make DLG and 3D models.



## Gas detector QT-14



QT-14 gas detector is mainly used to detect the temperature, humidity, CO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, PM<sub>10</sub> and H<sub>2</sub>S, NO<sub>2</sub>, SO<sub>2</sub> CH<sub>4</sub>, O<sub>2</sub> and other related gas concentration data in the environment. It can view the detection data in real time, view the historical data, view the flight path on the map, and compare the data at different times in the same place.

Size: 228mmx140mmx50mm

Weight: 500g

Power supply: 12V

Detection range Temperature, humidity, CO<sub>2</sub>, PM<sub>2.5</sub>,

PM<sub>1.0</sub>, PM<sub>10</sub> and IS, NO<sub>2</sub>, SO<sub>2</sub>, CH<sub>4</sub>, O<sub>2</sub> etc

Data transmission mode: 4G/ data transmission

working temperature : -30°C ~ 60°C

## Drone bird repellent QN-02



QN-02 drone bird repeller is a self-developed and produced drone-mounted bird repellent product. It consists of tweeter, ultrasonic speaker, camera, 360° rotating strobe spotlight and others. It can work day and night. It is compatible with various types of flight platforms in the market.

Product model: QN-02

Product size: 260x260x210mm

Loudspeakers : 2 sets 100 w/set

Ultrasonic horn : 4 sets 75 w/set

Spotlight: 3 sets 10 w/set

360° flash lamp: 5 sets 50 w/set

360° laser light : 28 + 1 sets laser bands

Product weight: 2500g

Working radius: 150m~300m

Power supply voltage: 24V

Working temperature: -20°C~60°C

HD camera : 300,000 pixels F=3.6mm

## Water intake device QS-1.5



QS-1.5 UAV water sampler is well made, unique structure design, and made of corrosion-resistant polymer synthetic materials. Water samples can be automatically taken from rivers, rivers and other areas by the mounted UAV to improve the efficiency of water sample collection.

Size: 161mmx134mmx319mm

weight : 2050g

Barrel diameter: 130mm

Capacity: 1.5L (customizable capacity)

Wire length: 5m

The height of the water : 1m~2m

Retraction time: ≤20s

Maximum power consumption: 40W

The supply voltage : 24V

Control mode : PWM/SBUS

## Spreader PS-02



Model PS-02 product is made of carbon fiber and high-strength composite materials. The drone-mounted spreader has the novel appearance and high load. The three spreading pipes can load 200 sheets of A4 paper, which greatly improves the load capacity. It can complete spreading in one time through remote control operation. The connection part adopts a quick-release structure to ensure flexibility under multi-tasking.

Product model: PS-02

Control mode: PWM/SBUS

Product weight : 1328g

V Power supply voltage : 12V

Control distance: 1500m

Quantity of paper loaded: 200 sheets

Product size : 296 high x 230 wide (mm)

Loading paper size: A4/A5

Pipe diameter 75 x length 235 (mm)

Product material: Carbon fiber + high strength composite material



## Cable pay-off model FX-01



Size: 320mmx190mm  
Weight: 20kg  
The shaft length: 301mm  
Wire rope : 1000m(diameter 2mm)

The FX-01 UAV pay-off is mainly used in electric power, telecommunication and railway, cables, optical cables and other ropes in roads, communications and other fields.

## Track lighting T-01



Size: 95mm x80mmX35mm  
Lamp holder activity radius  
120mm  
Weighs: 430g

Voltage: 12V ~ 24V  
Power: 90W  
Range: 400m~800m  
Light on: 90001m  
Adjust the Angle: 0°~ 90°

T-01 searchlight onboard 4 "round 9 bead LED remote spot light by Clairvoyan Aviation

A mounted lighting product developed for inspection UAV. The product is equipped with Germany original imported lamp beads, irradiation distance can reach 400 ~ 800 meters, all black You can see pedestrians at 400 meters under road conditions. Which can be widely used in patrol inspection, Disaster prevention and mitigation, emergency monitoring and other areas.

## High altitude loudspeaker GH-02



Total weight 800g  
Loudspeaker power 100W  
The airborne terminal voltage: 12V ~ 24V  
Ground terminal voltage: 7.4V  
Product volume: 110d±5d  
No wind :450m/ Downwind :550m

GH-02 loudspeaker is a newly developed UAV airborne loudspeaker, body

Small volume, light weight, independent module and easy installation. Have full frequency band since dynamic scanning receiving function, regardless of frequency point arbitrary reception. suitable for air defense, firefighting, search and rescue, patrol, etc.

## Thrower PT-30

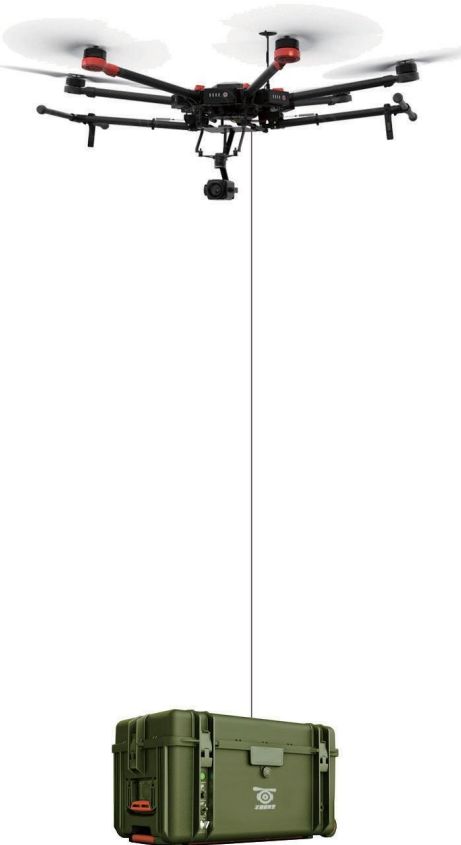


Size: 202mmX35mmx45mm  
Weight: 300g  
Pull space: 8mmx10mm  
Pulling load: 15kg  
The max opening time : 1s  
Control mode: PWM/SBUS

The PT-30 mounted thrower has the advantages of small size, light weight and heavy load . With strong structural strength, greatly improve the load capacity. mounted device is compatible with PWM/SBUS signal control, which improves the compatibility.



Model X-5A



Size: 350mmx300mmx350mm  
Weight : 18kg  
Input voltage : single-phase AC220V@50Hz, DC 200~420V  
Capstan tension: 400N~600N(adjustable)  
work temperature -35°C~55°C  
Storage temperature: -40°C~70°C  
The length of storage cable: 110m  
The box material: carbon fiber -  
Display function: current, voltage, temperature, fault and other working status  
Communication : Optical fiber communication, HDMI video port, and CAN data reporting function  
Protection function : leakage protection, lightning protection, current, over voltage, short circuit, over temperature protection  
Protection function: strong and weak electric separation design, anti-contact safety design, winch anti-winding design  
Safety level Flame retardant level :V-0, protection level :IP43  
Retracting and releasing speed: follows the actual throttle speed of the aircraft (adjustable)  
Winch working mode: automatic cable discharging, line rewinding and pay-off, with no power supply manual cable rewinding device

Model X-5B



Size: 500mmx400mmx350mm  
Weight: 29kg  
Input voltage: single-phase AC 220V@50Hz, DC 200~420V  
Capstan tension: 400N~600N(adjustable)  
work temperature: -30°C~50°C  
Storage temperature: -40°C~70°C  
The length of storage cable: 110m  
Box material : metal material  
Display function: current, voltage, temperature, fault and other working status  
Communication Function: Optical fiber communication, HDMI video port, and CAN data reporting function  
Protection function: leakage protection, lightning protection, over current, over voltage, short circuit, over temperature protection  
The strength of protection function : designed by separation, anti-contact by safety design, anti-winding design  
Safety level Positive combustion level :V-0, protection level :IP44  
Retracting and retracting speed: follow the actual aircraft throttle advice (adjustable)  
Winch working mode :automatic cable discharging, line rewinding and pay-off, with no power supply manual cable rewinding device





## Handheld all-in-one remote control S-30

Size: 364mmx190mmX40mm

Weight : 2100g

Channel number: 23

Remote control distance : 10km

Endurance time: 3 hours at full load

Display: 10.1"

Resolution :1280x800

Memory: 4GB/8GB DDR3L(Optional)

Storage capacity: 64GB/128GB(Optional)

Operating system : Windows 10

work temperature: -10°C~60°C

S-30 is a single soldier handheld data transmission monitoring system that integrates remote control, data transmission and ground station. S-30 has high marketability and volume small, easy to operate, multi-channel adjustable, double S-BUS output, etc. operating in 840MHz, 915MHz, 1.4GHz, 2.3-2.5GHz frequency bands, the port provides a stable number at a distance of 3-30km according to different versions and environments . Widely used for industrial UAV control and data transmission .



## Dual screen Earth station DMS-01

cover size: 354mmx280mmx80mm

The weight : 5980g

Operating frequency: 800MHZ/902-920MHZ

1.4 GHZ / 2.3 GHZ / 2.4 GHZ / 2.5 GHZ

Number of channels: 27

Remote control distance : 5km~10km

display : 12.1 "/13.3"

Storage capacity : 256GB

Operating system: Windows7/Windows 10  
/Linux

work temperature: -20°C~60°C

DMS-01 earth station is a new generation of multifunctional, highly integrated and portable industrial grade integrated double screen earth station. It integrates image transmission system, digital transmission system, hand-held remote control, image display system and industrial notes . all functions of this computer are made of aviation aluminum alloy housing, and the weight is only 5.98KG. In addition to 4 groups of rockers available, also support traditional RC remote control access remote control, increase HID channel remapping, programmable soft - open polymorphic off. Complete external input and output interfaces are more convenient to access third-party equipment, and more convenient to adapt UAV, unmanned vehicle, robot and other UAV equipment.





## Ground control station DMS-01S

Size : 600mmx450mmx270mm

Weight: 18kg

work temperature: -10°C~50°C

The port supports : USB/HDMI/SDI/AV/PPM/RJ45

VGA/RS232/DC IN

Display distribution : dual-channel HDMI display on the same screen,

Picture in picture display, master and deputy switch

Remote lever equipment : 1024 high precision back control lever

Maximum signal effective range: 2.4gFCc 7km CE 4km

Transmission power: 600mw~1.2W

The host memory : 4GB DDR3

Host processor: i5-5500u dual-core 1.8GHz

The host disk : 128 G SSD

The display size : 21.3 inches

The display resolution : 2048x1536

DMS-01S adopts imported military draw-rod box, polypropylene composite material,

IP67 protection grade, open cover for use, closed cover three protection transport. Earth station built-in transmitting unit, receiving unit, LCD screen, control rocker, real-time

receive and display a variety of important flight data.



## Ground work station DMS-02

Closing cover size : 730mmx500mmx320mm

Weight : 25kg

The port supports: USB, HDMI, SDI, AVIPPM, and RJ45  
VGA/RS232/DC

Display Allocate: double HDMI channels on the same screen

Picture in picture display, master and deputy switch

Maximum signal effective range: 2.4gFCc 7km CE 4km 433FCc  
60km CE 40km

The transmission power : 600mW-2W

Processor: i5-5500u

The host memory : 4GB DDR4 (2133mhz)

The host disk: 128 G SSD

Host chipset Inter: 100; Q170

Host NIC Inter: 1219LM gigabit to large wired NIC

The display size : 28 inches

The display resolution: 1920x1080

Display picture transmission: HD 10KM support 1080P

DMS-02 professional simulation ground station adopts imported military pull rod

Case, three - proof design, protection level up to IP67. Professional simulation flight control system, built-in control rocker, open the cover for use. The ground station has built-in fluid the crystal screen receives and displays a variety of important flight data in real time.





# Integrated command platform diagram transmission DB-01

Video encoding: support dual-stream transmission  
Video input : Standard HDMI input  
Video Output: Micro-HDMI port high-definition video output  
LCD screen HD video output  
Operating system : Android 4.4  
CPU quad-core : 1.8GHz, 2GB RAM  
Storage device built-in : 16GB Flash.  
TF card supports : 64GB or higher  
Inside the camera: 8-megapixel HD camera  
Supports external HDMI HD camera and DV camera  
Display 4 "HD retina screen  
Storage TF card storage: supports 64GB or above  
The network function supports wireless transmission and complete TCP/IP  
Audio 3 groups two-way channel :3 Select 1 Use: Priority Bluetooth >mic socket> Built-inSensor Built-in gravity sensor Power supply standard with 7.4V/3200mAh battery

DB-01 model uses the three-defense design, Android operating system, ARM true four  
Core 1.8GHz processor, built-in external dual HD video source, 4 "high brightness  
Capacitive touch screens, and large-capacity batteries. Through 4G/WIFI network  
remote audio and video monitoring, two-way video intercom, multi - party cluster meeting, this storage, can be customized integrated industry features of the business office APK, auxiliary beidou /GPS dual mode positioning, gravity sensing, fingerprint acquisition and recognition, blue tooth transmission and other functional modules, equipped with external small HD camera and headphone.  
It is widely used in on-site forensics, remote command, remote consultation and response  
Emergency dispatch and other occasions.



# Portable multi-card HD video terminal DB-02

The size: 133mmX83x33mm  
Weight: 500g  
Power consumption: 6W  
The environment : -10°C~ 70°C  
- 20 °C ~ 70 °C °  
Video port standard: HDMI input  
Audio input: 3.5mm headphone jack  
Encoding standard AAC/G711/ARM  
Network interface: RJ45  
Power port : DC12.6V 3A  
Battery capacity lithium battery: 8000mAH working time : 6 hours  
MicroSD Card TF Card (support 128G Max)  
Network Mode: 5GSA/NSA networking mode:  
LTE-TDD/ LTE-FDD, 5G/4G/3G all-band compatible  
Power button: metal self-locking type  
WIFI(Optional) Working mode (routing mode, hotspot support)

DB-02 single soldier portable multi-card HD video terminal using 5G portable Multi-card HD video terminal embedded system architecture, equipment based on high performance H.265 video coding technology and 5G wireless channel bundled transmission technology development A new generation of products. support 5G+4G network bundling mode, can bundle 3 no The link to the carrier data card works simultaneously. Solve the current 5G early overburden Cover the problem of more blind spots, to realize the perfect integration of 5G/4G.

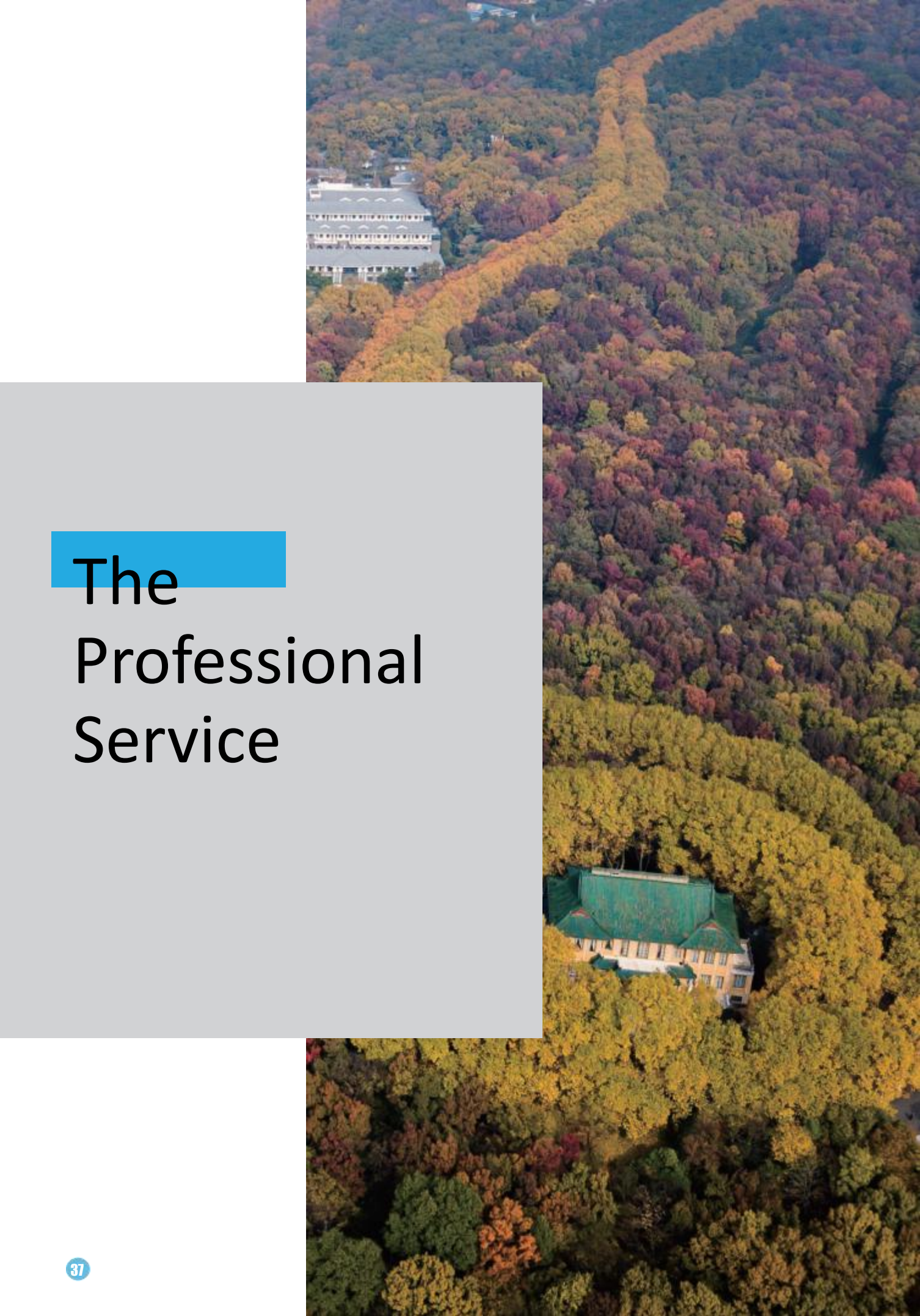


03

SOLUTION

Professional Services/Application Cases/Collaborating Units





# The Professional Service

## The professional service



Serve the network    Serve the world



Before sale	On sale	After sale
Solution Provid products show Bidding assistance Equipment customization	system testing professional training	Service quick respond Trouble excluded remote instruction software upgrading





# Application Cases

## Application fields



military drone		Police UAV		Industrial UAV		drone defense	
Army	investigation and warning, border patrol tracking and position, communication	public security	Public security patrol , escaped prisoner, Large-scale activities of security services ,Anti-drug and anti-terrorism	Ecology	geographical mapping, Environmental monitoring	Applica tion Scenari o	Water conservancy dam
		traffic police	traffic management, Traffic flow guide , vehicle positioning, accident rescue	agricult ure	Scale seeding, Agricultural situation management		Petrochemical tank
Navy	emergency rescue, integrated supply assistance defense, tracking and position	fire fighting	Fire inspection,Hidden danger monitoring ,high fire fighting,Fire rescue	medical	Disaster rescue, Drug transportation,		diplomatic activities
		forest	Fire warning,ecological protection, Public security inspection,stock assessment	electric power	Water conservancy monitoring,		military reservation
Air force	airport birds dispelling, network drill ,Gun calibration, electronic countermeasures	Coast guard	emergency rescue, marine law enforcement	Activity	Tourist guidance, Emergency assistance, Security guarantee		important events
				media	Formation performance, movie aerial photography ,		Live performance
							Prison airport
						Dignitary security	
						important meeting	
						Archaeological site	
						Security agency	

## Application scenario display



### Bird repellent case

Our R & D products bird repellent device is the leader in the market, which are sold all over the country for military, civil airports and crops, orchards, granaries, etc. The bird repellent mounted by UAV can make bird invasion caused by auditory intimidation, visual shock to achieve the purpose of bird repellent. The use of professional bird repellent device can achieve the purpose of effective bird repellent without harm birds, more scientific, but also effectively reduce the phenomenon and risk of birds hit. Compared with the effect of human bird repellent, in time and efficiency it is increased by more than 85%.





## Environmental Protection Case

For the field of environmental protection, UAV inspection is a more efficient treatment method to deal with air pollution, water pollution, soil pollution, solid waste pollution and other environmental problems. The use of UAV for inspection, monitoring and scanning of environmental pollution distribution in a specific area, which can control the distribution of pollutants, so as to quickly lock the source type, location and transmission direction of pollution sources, and provide action ideas and basis for environmental protection departments. At present, our environmental protection UAV has been widely used in the environmental protection regulatory departments of counties, providing convenience and increasing efficiency for the national environmental protection work.



## Inspection case

The use of UAV for inspection not only saves manpower, but also has high efficiency. Currently, UAV inspection is gradually replacing human foot inspection. Drones are used for traffic, pipeline, fire fighting and energy inspection. Inspection tasks can be set freely to effectively deal with emergent events. Image recognition technology and image control algorithm can accurately identify the target, quickly take the evidence of various situations, so as to promote the supervision, take the evidence, investigation and other law enforcement work.





## Low Altitude Defense Case

Uav defense system uses detection radar, photoelectric equipment and other method to work together to integrate and comprehensively process multi-source detection and monitoring information, so as to realize early detection, accurate identification and timely warning , Analyze and judge the target threat situation to make targeted jamming and blocking decisions. The interceptor based on electronic jamming can provide continuous high-precision and high-data rate guidance information, command defense and attack, so as to effectively protect the security of low-altitude areas.



## Security service

Uav have become in many ways expert in work, which not only further improves the efficiency of response, decision and evaluation, but also promotes the informatization process. The deployment of our defense system in government agencies and regulatory places which can effectively guarantee the three-dimensional defense system and low-altitude security .

According to customer requirments , we have launched a series of UAV and UAV jamming interception equipment rent services, customized to provide the effective long, medium, short term and rent solutions.

