



CIVILIAN UAV DRONES

Redefining the horizon through precision engineering and intelligent flight. Explore the next generation of aerial solutions designed for enterprise, agriculture, and infrastructure

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Kolojic collaborates with carefully selected technology partners to offer products that are technically validated, application-ready, and aligned with global market requirements.



100% PROPRIETARY INTELLECTUAL PROPERTY

01

UAV FLIGHT CONTROL SYSTEM



MULTI-SOURCE FUSION
NAVIGATION



DUAL SAFETY ARCHITECTURE



ADAPTIVE DYNAMIC CONTROL



OMNIDIRECTIONAL AI OBSTACLE
AVOIDANCE

02

PROPULSION & POWER MANAGEMENT SYSTEM



INTELLIGENT HEALTH MANAGEMENT
SYSTEM



MONOLITHIC LIGHTWEIGHT
PROPULSION SYSTEM



HIGH-EFFICIENCY FOC DRIVE SYSTEM



SUB-15MS DYNAMIC RESPONSE
ENGINE



01

**APPLICATION
AREAS**

01 SOLUTIONS TO AGRICULTURAL FISHERIES PROBLEMS

Air and sky integrated monitoring network! The drone patrols the field to know the pests and diseases, explores the fishing ground to set feeding, the precise variable operation in both land and water domains, increases the yield by 20% + risk reduction by 30%, and empowers the big agriculture with the double effect of one machine.



FARM SEEDING



WATER QUALITY MONITORING



PRECISION BAITING



FISHING AIDS



LAND MANAGEMENT



PEST CONTROL



CROP MONITORING



FISHERY INSPECTIONS

SOLUTIONS TO FIRE INCIDENT PROBLEMS

After the fire accident, the drone high-altitude precision bombing fire, all-terrain 30-second response, blocking the fire + open rescue channel, personnel zero-contact operation to ensure safety.



LARGE-SCALE HILL FIRES



HIGH-RISE BUILDING FIRE



SCENE OF A CAR ACCIDENT



CHEMICAL PLANT EXPLOSION



GRASSLAND FIRE



SPONTANEOUS COMBUSTION OF WASTE



FUEL LEAK



CABLE OVERLOADING

SOLUTIONS TO EMERGENCY RESPONSE PROBLEMS

They are all safety and security measures to act quickly to minimize casualties and property damage after emergencies (e.g., natural disasters, accidents and calamities, and public health incidents) have occurred.



SUPPLY OF FRONT-LINE MATERIAL



SNOWSTORMS



FLOOD DAMAGE



LARGE-SCALE HILL FIRES



POST-QUAKE AREA



OUTBREAK RESPONSE



SEARCH AND RESCUE POSITIONING



THE SITUATION IS COMPLEX

04 SOLUTIONS TO LOGISTICS AND TRANSPORTATION PROBLEMS

Build an all-terrain direct logistics network! Drone 24-hour response + intelligent scheduling system, mountainous islands extremely fast reach, reduce costs and increase efficiency by 30%, the whole temperature control escort security.



MATERIAL TRANSPORTATION



EMERGENCY MEDICAL DISTRIBUTION



EXTERNAL WALL CLEANING



PHOTOVOLTAIC CLEANING



SUPPLY TRANSPORT



EQUIPMENT TRANSPORTATION



LOGISTICS AND DISTRIBUTION



TOWER CONSTRUCTION TRANSPORTATION

05

SOLUTIONS TO SURVEY MONITORING PROBLEMS

UAV LIDAR Centimeter-Level 3D Modeling! High-precision mapping of the whole terrain + AI early warning of engineering settlement, labor time-consuming halved, 0-contact monitoring of risk areas, data error $\leq 2\text{cm}$.



TOPOGRAPHIC MAPPING



PROGRESS MONITORING



FACILITY INSPECTIONS



MASS INSPECTION



SAFETY CHECK



ENVIRONMENTAL MONITORING



POLLUTION MONITORING



ECOLOGICAL MONITORING

06

SOLUTIONS TO LOW-ALTITUDE SHORT- AND MEDIUM-RANGE TRANSPORTATION PROBLEMS

AI-optimized point-to-point rapid transit, Real-time dynamic obstacle avoidance, Zero-emission flight operations, 15-minute inter-city mobility, Multidimensional air transport network for metropolitan integration.



AIR TAXI

02

**FEATURED UAV MODELS
OVERVIEW**

N-[4080A]

AGRI-AQUACULTURE INTEGRATED SOLUTION UAV PLATFORM



NOMINAL CAPACITY

30,000mAh



WEIGHT OF MECHINE

40kg



NUMBERS OF WATER PUMPS

2pcs



SPRAYINGWIDTH

5-10m



EFFICIENT SPRAYING AT

300mu/hr



CAPACITY OF INTELLGENT PESTICIDE BOX

30L

*The above is only representative of the product display | More models are welcome to inquire | Support customization

MS-3[6030C]

FLAGSHIP FIREFIGHTING EMERGENCY RESPONSE SOLUTION UAV PLATFORMS



COMMUNICATION DISTANCE

3km



WINGSPAN

1950mm



MAXIMUM TAKEOFF WEIGHT

62kg



PAYLOAD

30kg



SIX ROTOR HEAVY-DUTY ELECTRIC DRONE

FOAM FIRE EXTINGUISHER

LONG ENDURANCE

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TD-118070A1

FLAGSHIP FIREFIGHTING EMERGENCY RESPONSE SOLUTION UAV PLATFORMS



COMMUNICATION DISTANCE

5km

PAYLOAD



70kg
WINGSPAN

2150



mm



FIREEXTINGUISHING CAPACITY

800m²PER FLIGHT



MAXIMUMTAKEOFF WEIGHT

132kg



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TY-1C14050A1

FLAGSHIP FIREFIGHTING EMERGENCY RESPONSE SOLUTION UAV PLATFORMS

3 MAJOR PLATFORMS



UNMANNED AERIAL VEHICLE FLIGHT PLATFORM



INTELLIGENT WATER CANNON CONTROL AND OPERATION PLATFORM



CONTINUOUS HIGH-PRESSURE WATER SUPPLY PLATFORM FOR FIRE TRUCKS

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TS-1[4020A]

EMERGENCY RESPONSE INTEGRATED SOLUTION UAV PLATFORM



FLIGHT DISTANCE(KM)

10-50_{km}



PAYLOAD

20-100_{kg}

It is a small foldable quadcopter and quadcopter with eight propellers, capable of carrying different loads. As a new equipment for rapid emergency rescue and strategic material delivery, this drone has the advantages of foldable storage, small size, light weight, and convenient transportation. It can be deployed at any time to carry out flight material delivery tasks in both wartime and non wartime emergency situations. This drone can deliver civilian disaster relief supplies, food, medicine, etc. Small arms and ammunition for military supplies, battlefield medical supplies, and daily necessities for the battlefield.

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TX-1[2020A]

EMERGENCY RESPONSE INTEGRATED SOLUTION UAV PLATFORM

As a new equipment for rapid emergency rescue, this drone has the advantages of foldable storage, small size, light weight, and convenient transportation. In various emergency situations such as natural disasters, Earthquake stricken areas, mudslides, flash floods, etc., carry out high-altitude lighting tasks at any time. Continuously supply power to the drone through the ground power supply unit. The drone is equipped with a lighting system that uses optical imaging components to emit sharp light beams at an angle of only 15 degrees, with consistent color and uniform brightness, and stable output of 24lux optimal brightness. Solving the problem of aerial lighting for night operations and emergency rescue. The drone elevates aerial lighting to a new height.



THE EFFECTIVE ILLUMINATION DISTANCE

200m



THE EFFECTIVE ILLUMINATION AREA

1225m²



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TJ-I6020A1

EMERGENCY RESPONSE INTEGRATED SOLUTION UAV PLATFORM



PAYLOAD

15kg



FLIGHT DISTANCE

10km



FLIGHT DURATION

60mins

The aircraft is a six rotor unmanned aerial vehicle with a payload of 15 kilograms; The flight distance is 10 kilometers and the flight duration is 1 hour. Real time image acquisition, data analysis, and simultaneous flight of one aircraft and multiple aircraft; Individual measures can be taken; It is also possible to carry out all-round evacuation strikes simultaneously. Response speed block, high efficiency, low cost, wide coverage, remote control, long endurance, precise task execution. On the premise of ensuring the personal safety of armed police soldiers, we will implement precise strikes against terrorists and maintain social order.

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TX-2[6030A]

LOGISTICS MOBILITY OPTIMIZED SOLUTION UAV PLATFORM



TX-2 [6030A] Photovoltaic Power Station High Voltage Cleaning Drone, which is a multi rotor pure electric photovoltaic power station high voltage cleaning drone. This drone is a small foldable hexacopter, specifically designed for high-pressure cleaning of photovoltaic power plants. This drone is a new equipment for high-voltage cleaning of photovoltaic power plants, with foldable storage, small size, light weight, and convenient transportation. It is suitable for long-term operations in large areas of photovoltaic power plants and can be deployed at any time to perform flight cleaning tasks. This drone can carry water, cleaning agents, mixed cleaning solutions, and other approved cleaning agents. According to the needs of photovoltaic power plants, larger payload aircraft can be customized. This drone can automatically plan routes, return autonomously, take off repeatedly for cleaning, perform tasks independently, and fly multiple planes simultaneously according to the needs of photovoltaic power plants. Response speed block, high efficiency, remote control, precise task execution. Implementing automated cleaning of photovoltaic power plants greatly saves labor costs, improves efficiency, and enhances power generation.

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TD-1[4015A]

LOGISTICS MOBILITY OPTIMIZED SOLUTION UAV PLATFORM



The TD-1 [4015A] multi rotor electric overhead line unmanned aerial vehicle is a series of "electric line traction auxiliary overhead line unmanned aerial vehicles" developed by Shengshi Tianyi. This drone can assist wire workers in pulling high-voltage wire ropes to designated iron towers in any environment, greatly reducing labor costs and personnel operational risks.



MAXIMUM TAKEOFF WEIGHT

35_{kg}



WINGSPAN

1400_{mm}



COMMUNICATION DISTANCE

3-10_{km}



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ZE-1[4020A]

GEOSPATIAL SURVEY & MONITORING INTEGRATED UAV PLATFORM



The "ZE-1" [4020A] forest and grassland monitoring drone is a monitoring series developed by Shengshi Tianyi, known as the "Long Endurance Composite Wing Long Endurance Monitoring Drone".

The drone adopts a long endurance aircraft with a composite wing vertical takeoff and landing mode. Regular flight monitoring and surveillance can be implemented in key ecological areas such as large forest farms, national forest parks, ecological nature reserves, and grasslands.



WINSpan
3800mm



CRUISE ALTITUDE
4000m



MAXIMUM SPEED
26m/s



BATTERY LIFE
180mins



MAXIMUM TAKEOFF WEIGHT
20kg



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JDY-1

LOW-ALTITUDE REGIONAL AIR MOBILITY SOLUTION PLATFORM



AIR TAXI

The drone is a multi rotor, heavy load, and long endurance aircraft. It can serve as an "air taxi" to solve point-to-point urban transportation problems. This drone achieves precise vertical takeoff and landing through its visual system, without the need for traditional infrastructure such as large airports and taxiways, meeting the scene requirements of urban aerial public transportation and alleviating current urban road traffic congestion. It is a leader in future urban transportation.



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03

**PRODUCT
PARAMETERS**

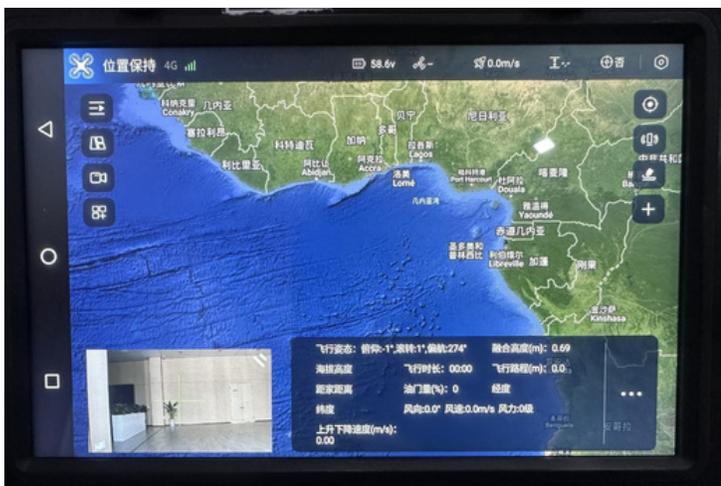
SPECIFICATION



Parameters of multi rotor electric overhead

Technical parameter indicators			
Rotor type	Four axis four propeller	Effective remote control distance	≥5Km (unobstructed plain transparent zone)
Folded Size	1400mm*700mm*700mm	Effective communication distance	≥3-10Km (self-organizing network relay)
Aircraft weight (including battery)	20Kg	Full load endurance	30mins (hovering at low altitude)
Maximum takeoff weight	35kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	15kg (low altitude)	Image transmission	Integrated graphics and numbers
service ceiling	≥1500m	Maximum wind resistance capability	≥8m/s
product material	Carbon fiber, aviation aluminum	Out of control protection function	Support one click autonomous return (unobstructed plain view)
Maximum takeoff altitude	≥3000m	protection grade	IP65
Route Planning	Support route planning (unobstructed plain view)	Maximum level flight speed	25km/h
Main function: It can assist wire workers in pulling high-voltage line traction ropes to designated iron towers in any environment, greatly reducing labor costs and personnel operation risks.			

SPECIFICATION



Parameters of Bumblebee multi rotor firefighting unmanned aerial vehicles

Technical parameter indicators			
Rotor type	Four axis eight propeller	Effective remote control distance	≥5km (Transparent Zone)
Folded Size	1700*1700*850mm	Maximum level flight speed	72km/h
Unfolded Size	3410*2800*850mm	endurance	30mins (low altitude)
Aircraft weight	40kg+32kgincluding battery	Obstacle avoidance function	Support radar obstacle avoidance
Maximum takeoff weight	132kg (low altitude)	Image transmission	Real time image transmission integrated system
payload	70kg	Maximum wind resistance capability	≥12m/min(6Level 6)
service ceiling	≥3500m	Out of control protection function	Support one click, out of control, low-voltage autonomous return
product material	Carbon brazing, aviation aluminum materials	protection grade	IPX7
Technical indicators of fire extinguishing bombs			
Weight (single piece)	10kg	Fire extinguishing substrate	Ultra fine dry powder, water-based
Effective fire extinguishing area (single unit)	200m ²	Explosive method	Detonation, fixed-point height
scope of application	Forests and grasslands		
configuration			
The price configuration includes: aircraft, one charger, four batteries, one remote control, and 10 fire extinguishers			

SPECIFICATION



Parameters of Bumblebee super high-rise firefighting unmanned aerial vehicle

Technical parameter indicators			
Rotor type	Four axis eight propeller	Effective remote control distance	≥5km (transparent zone)
Folded Size	1700*1700*850mm	Maximum level flight speed	72km/h
Unfolded Size	3410*2800*850mm	endurance	30mins (low altitude)
Aircraft weight	40kg+32kg(including battery)	Obstacle avoidance function	Support radar obstacle avoidance
Maximum takeoff weight	132kg (low altitude)	Image transmission	Real time image transmission integrated system
payload	70kg	Maximum wind resistance capability	≥12m/min(Level 6)
service ceiling	≥3500m	Out of control protection function	Support one click, out of control, low-voltage autonomous return
product material	Carbon brazing, aviation aluminum materials	protection grade	IPX7

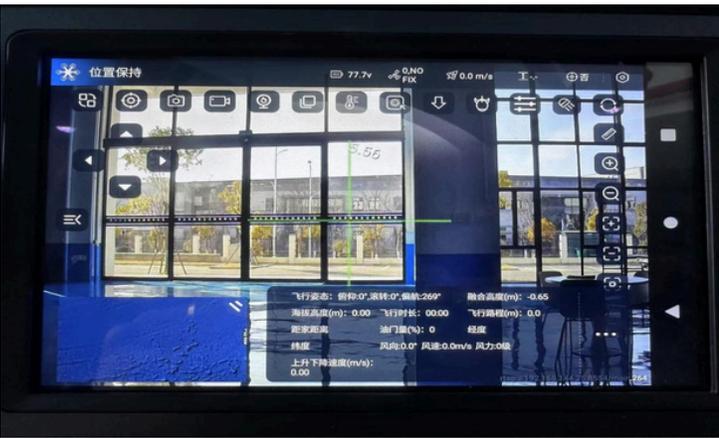
SPECIFICATION



Parameters of a 100kg transport drones

Technical parameter indicators			
Rotor type	Six axis Six propeller	Effective remote control distance	≥5Km (unobstructed plain transparent zone)
Folded Size	1680mm*1680mm*1250mm	Effective communication distance	≥5-50Km (self-organizing network relay)
Aircraft weight (including battery)	106Kg	Full load endurance	22mins (hovering at low altitude)
Maximum takeoff weight	210kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	100kg (low altitude)	Image transmission	Integrated graphics and numbers
service ceiling	≥1500m	Maximum wind resistance capability	≥12m/s
product material	Carbon fiber, aviation aluminum	Out of control protection function	Support one click autonomous return (unobstructed plain view)
Maximum takeoff altitude	≥2000m	protection grade	IPX7
Route Planning	Support route planning (unobstructed plain view)	Maximum level flight speed	25km/h
Main function: capable of carrying out emergency rescue material transportation; Emergency rescue short distance transportation; Transportation of State Grid equipment; Fruit picking and transportation for farmers in mountainous areas; Transportation of afforestation seedlings; Tasks such as point-to-point strategic material transportation			

SPECIFICATION



Parameters of a 200kg Transport Drone

Technical parameter indicators			
Rotor type	Six axis twelve propeller	Effective remote control distance	5Km (unobstructed plain transparent area)
Folded Size	1910mm*1910mm*1250mm	Effective communication distance	5-50Km (self-organizing network relay)
Aircraft weight (including battery)	220Kg	Full load endurance	22mins (hovering at low altitude)
Maximum takeoff weight	420kg	Obstacle avoidance function Image transmission	Support radar obstacle avoidance
payload	200kg	Maximum wind resistance capability	Integrated graphics and numbers
Maximum takeoff altitude	2000m	Enable Beidou RTK	≥12m/s
service ceiling	≥1000m	Out of control protection function	Horizontal ± 0.6 cm, vertical ± 0.3 cm
product material	Carbon fiber, aviation aluminum		Support one click autonomous return (unobstructed plain view)
carrying capacity	Daily/20-24 tons (within 1 kilometer) for 8 hours	protection grade	IPX5
Route Planning	Support route planning (unobstructed plain view)	Cruise speed (maximum flight speed)	60km/h (80km/h)

Main function: capable of carrying out emergency rescue material transportation; Emergency rescue short distance transportation; Emergency rescue on water and high mountains; Transportation of State Grid equipment; Fruit picking and transportation for farmers in mountainous areas; Transportation of afforestation seedlings; Tasks such as point-to-point strategic material transportation.

SPECIFICATION



Parameters of a 500 kg transport drone

Technical parameter indicators			
Rotor type	Six axis twelve propeller	Effective remote control distance	≥5Km (unobstructed plain transparent zone)
Folded Size	4600mm×2000mm×1400mm	Effective communication distance	≥5-50Km (self-organizing network relay)
Aircraft weight (including battery)	570Kg (including battery)	Full load endurance	26mins (hovering at low altitude)
Maximum takeoff weight	1872kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	500kg (low altitude)	Image transmission	Integrated graphics and numbers
service ceiling	≥1000m	Maximum wind resistance capability	≥12m/s
carrying capacity	Daily/40-55 tons (Within 1 kilometer, it takes 8 hours)	Enable Beidou RTK	Horizontal ± 0.6 cm, vertical ± 0.3 cm
product material	Fiberglass and carbon fiber composite materials	Out of control protection function	Support one click autonomous return (unobstructed plain view)
Maximum takeoff altitude	≥2000m	protection grade	IPX5
Route Planning	Support route planning (unobstructed plain view)	Cruise speed (maximum flight speed)	60km/h (80km/h)

Main function: capable of carrying out emergency rescue material transportation; Emergency rescue short distance transportation; Emergency rescue on water and high mountains; Transportation of State Grid equipment; Fruit picking and transportation for farmers in mountainous areas; Transportation of afforestation seedlings; Tasks such as point-to-point strategic material transportation.

SPECIFICATION



Parameters of composite wing long endurance monitoring unmanned aerial vehicle

Technical parameter indicators			
Rotor type	Quad rotor	Effective remote control distance	≥25Km (unobstructed plain transparent zone)
Folded Size	3800mm*1700mm*	Effective communication distance	≥5-50Km (self-organizing network relay)
Aircraft weight (including battery)	15Kg	Full load endurance	180mins (altitude below 4000m)
Maximum takeoff weight	20kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	5kg (low altitude)	Image transmission	Integrated graphics and numbers
service ceiling	≥4000m	Maximum wind resistance capability	≥12m/s
product material	Carbon fiber, aviation aluminum	Out of control protection function	Support one click autonomous return (unobstructed plain view)
Maximum takeoff altitude	≥3500m	protection grade	IPX7
Route Planning	Support route planning (unobstructed plain view)	Maximum level flight speed	26km/h

Main function: It can provide timely and effective data for early detection, inspection, and survey of natural disasters in forests and grasslands; Provide decision-making basis for government functional departments; Implement regular flight monitoring and surveillance in key ecological protection areas such as large forest farms, national forest parks, and ecological nature reserves.

SPECIFICATION



High-rise photovoltaic cleaning drone

Technical parameter indicators

Rotor type	Six shafts and six oars	Effective remote control distance	≥ 15Km (unobstructed plain transparent zone)
Folded Size	1130*1040*650mm	Effective communication distance	≥5-15Km
Aircraft weight (including battery)	30Kg	Full load endurance	30 minutes (altitude below 4000 meters)
Maximum takeoff weight	66.5kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	30L (low altitude)	Image transmission	Integrated graphics and numbers
service ceiling	≥3000metre	Maximum wind resistance capability	12metre/s
product material	Carbon fiber, aviation aluminum	Out of control protection function	Support one click autonomous return (unobstructed plain view)
Maximum takeoff altitude	≥3500metre	protection grade	IPX7
Route Planning	Support route planning (unobstructed plain view)	Maximum level flight speed	43km/h

Conduct regular inspections of high - rise photovoltaic facilities. With the help of high - definition imaging and thermal sensing technologies, quickly identify component abnormalities. Carry out intelligent cleaning tasks, plan routes according to the layout of photovoltaic panels, and efficiently remove dirt. Collect and transmit data in real - time, covering cleaning effects and component performance parameters, providing detailed basis for the operation and maintenance team to formulate maintenance strategies, and ensuring the stable and efficient operation of photovoltaic power plants.



SPECIFICATION



Parameters of Plant Protection Drones

Technical parameter indicators			
Rotor type	Four axis four propeller	Effective remote control distance	≥5km (transparent zone)
Folded Size	1130*1040*650mm	Maximum level flight speed	72km/h
Aircraft weight	40kg(including battery)	endurance	30mins (low altitude)
Maximum takeoff weight	88kg (low altitude)	Obstacle avoidance function	Support radar obstacle avoidance
payload	40kg	Image transmission	Real time image transmission integrated system
service ceiling	0-1000m	Maximum wind resistance capability	≥12m/min(Level 6)
product material	Carbon brazing, aviation aluminum materials	Out of control protection function	Support one click, out of control, low-voltage autonomous return
Intelligent medicine box capacity	40kg	protection grade	IPX7
Brushless dual centrifugal spray amplitude	5-10m	operating speed	300 acres per hour
Brushless dual centrifugal broadcasting	6-10m	Broadcasting efficiency	430 acres per hour
Main function: Used for agricultural sowing, pest control, and other functions.			

SPECIFICATION



Parameters of Inspection Drones

Technical parameter indicators			
Rotor type	Four axis four propeller	Effective remote control distance	≥7km (transparent zone)
size	470*585*215mm	Maximum level flight speed	83km/h
Aircraft weight	3.8kg	endurance	41mins
Maximum takeoff weight	4kg	Obstacle avoidance function	Support radar obstacle avoidance
service ceiling	500m (height limit)	Image transmission	Real time image transmission integrated system
Out of control protection function	Support one click, out of control, low-voltage autonomous return	Maximum wind resistance capability	≥12m/min(Level 6)
Zoom Camera	1/2" cmos, 48 million effective pixels	Wide angle camera	1/2" cmos,
infrared camera	Uncooled vanadium oxide		
Airport technical indicators and parameters			
Whole machine weight	105KG (excluding drones)	Opening size of hatch cover	1675mm*885mm*735mm 800mm*88mm*1063mm
INPUT VOLTAGE	220VAC,50/60HZ	Closure size of hatch cover	-35 to 50°C
Input power	1500W MAX	Ambient Temperature	
protection grade	IP55	Maximum allowable landing wind speed	12m/s
Maximum operating altitude	4000m	Maximum homework radius	7000m
sensor function	Supports wind speed sensors, rainfall sensors, environmental temperature sensors, water immersion sensors, cabin temperature sensors, cabin humidity sensors, and vibration sensors.		
Main function: Used for inspection and identification functions in power, forest areas, animal husbandry, oil fields, etc.			



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