

INNOVATION PROMOTES INDUSTRY REFORM

Plant protection specific drones





Company Profile

Shaoxing Qimao Technology Co., Ltd., established in 2010, is a high-tech enterprise that integrates research and development, production, sales, and service. Located in Shaoxing City, Zhejiang Province, the company specializes in the field of drone data collection and application, providing customers with advanced drone solutions and customized services. The company's business scope mainly includes:

1. Drone data collection: The company possesses an independently developed drone data collection system that can be widely used in various fields such as agriculture, forestry, geology, environmental protection, transportation, and security. By equipping drones with high-definition cameras, multispectral cameras, lidar, and other devices, the system can achieve efficient and precise data collection.
2. Drone data processing and analysis: Qimao Technology has strong data processing and analysis capabilities, providing customers with drone data processing, analysis, and visualization services. Through advanced data processing technology and artificial intelligence algorithms, the company helps customers extract data value and provides strong support for decision-making.
3. Drone industry solutions: The company provides customized drone industry solutions for different industry needs, such as agricultural plant protection drones, forestry monitoring drones, geological survey drones, environmental monitoring drones, etc., helping customers improve work efficiency and reduce costs.
4. Drone rental and training: Qimao Technology provides drone rental services to meet customers' short-term or temporary needs. At the same time, the company also provides drone operation training to help customers master drone operation skills and ensure safe and efficient completion of work tasks.

Adhering to the business philosophy of "innovation, professionalism, and win-win", Shaoxing Qimao Technology Co., Ltd. is committed to providing customers with high-quality and efficient drone data collection and application services. The company has an experienced and skilled research and development team and maintains close cooperation with many well-known enterprises and scientific research institutions to continuously promote the development and application innovation of drone technology.

Qimao 4-axis 20L Plant protection drones

The Qimao 4-axis 20L (water mist machine) agricultural drone adopts a split platform design, integrating intelligent surveying, efficient sowing, and precise spraying, consolidating strong performance and reliable quality, and paving the way for smart agriculture in the factory.



Flight platform configuration parameters

Product Name:	XLP-420	Medicine box volume:	20L	
Product wheelbase:	1580mm	Maximum lifting capacity:	35KG	
Product weight:	13kg	Spray width:	5-7M	
Folding size:	1010 * 610 * 575mm	Flight distance:	2-3KM	
Product size:	1140 * 1130 * 575mm (excluding blades)		Flight time:	15-20 minutes
Flight control system:	Polar Wing K++V2		Homework efficiency:	80 mu/h
Working voltage:	12-14S		Battery:	14s 20000mah
Power system:	Haoying X9PLUS power package		Charging time:	15-20 minutes
Maximum pressure:	1mpa		Spray flow rate:	8L1/MIN

Function:

1. Android mobile ground station, convenient to use/PC ground station, full voice broadcasting
 2. Support route planning, fully autonomous flight operations, and support AB point operations
 3. Supports one click takeoff and landing without manual intervention, improving safety
 4. Intermittent spraying, no medicine, low battery return
 5. Dosage detection, can set automatic recording breakpoint for returning without medication
 6. Battery detection, can set low battery to automatically record breakpoints and return home
 7. Fence function, log storage function, road locking function, no fly zone function
 8. Vibration protection, star loss protection, and medication interruption protection
 9. Motor sequence detection function, direction detection function
- Work efficiency: Daily workload of 400-700 acres

Power system

Haoying X9PLUS power system

The all-new X9-PLUS powertrain breaks through both power and efficiency,
Using a maximum load of up to 13KG/shaft combined with a 36 inch composite material aviation folding blade,
the maximum tensile force is 26.5KG,
Recommend using a single axis load of 10-13KG for better efficiency in the 10-12KG range



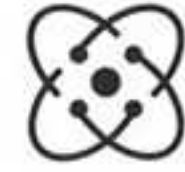
Power upgrade
Extra large load



Efficiency performance
Double layer optimization



Extra high tensile force
Stable flight



Integrated pipe
Structural design



Rapid heat dissipation
Anti-collision structure



IPX7 protection
Anti corrosion and
rust prevention



Multiple protection
functional design



Support for free
System upgrade



Dynamic system

Haoying X9PLUS power system

Rapid cooling

Anti collision structure design

Inheriting excellent heat dissipation structure, for high-power load use, the motor rotor expands the fan hot air duct

Increase the torque coefficient of the motor and reduce the current and thermal load under the same tension compound:

Anti impact design at the tail end of the motor seat, capable of absorbing impact force

Protect the motor and electrical regulator to reduce damage to power components caused by malfunctions and crashes



Aviation Lamp Language

When adding power failure, the navigation lights will flash and display

Immediately remind users of specific fault states

Timely detection and confirmation of issues

Timely troubleshooting and safe flight

Protection level IPX7

In order to cope with different regions of the plant protection industry and more harsh usage environments, the X9-PLUS power system motor has improved anti-corrosion and rust prevention performance, with an overall protection level of IPX7 for fully sealed electrical regulation protection, suitable for different working environments and climates worldwide



High lift, high-efficiency propellers

High strength special carbon fiber material propeller, the propeller is made of high-strength special carbon fiber material injection molding;

The blade is sturdy and lightweight, with good consistency and superior dynamic balance characteristics. The aerodynamic shape optimized by aerodynamics experts, combined with the specially optimized motor electromagnetic design for the propeller, and the efficient FOC (Field Oriented Control, commonly known as Sine Wave Drive) algorithm, give the entire power system advantages in lift and force efficiency.



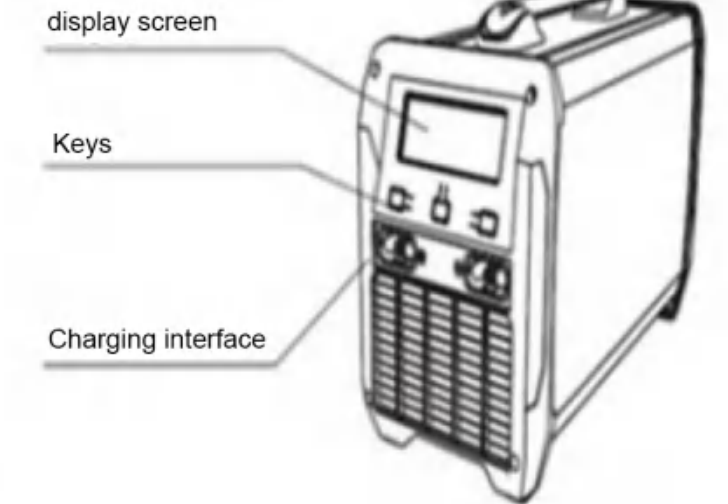
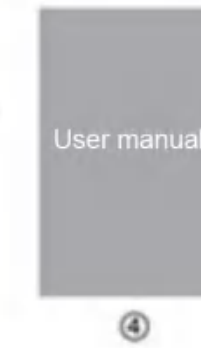
Dual channel unmanned aerial vehicle intelligent lithium battery BF-60/55 charger

The Jizhao Dual Channel Intelligent Charger is a product designed for fast charging of lithium-ion batteries in drones, with a maximum charging power of 3000W. The product adopts an independent power supply design, and its internal circuit is highly intelligent, integrated, and modular. Adopting high-precision data detection and optimal charging algorithm to achieve efficient and safe charging process, delaying battery aging. This product has one click operation, no need for settings, is convenient and simple, and the entire charging interface is clear and intuitive. The digital display of charging status allows for intuitive understanding of the charger and battery status. This product is one of the best configurations for plant protection drones.

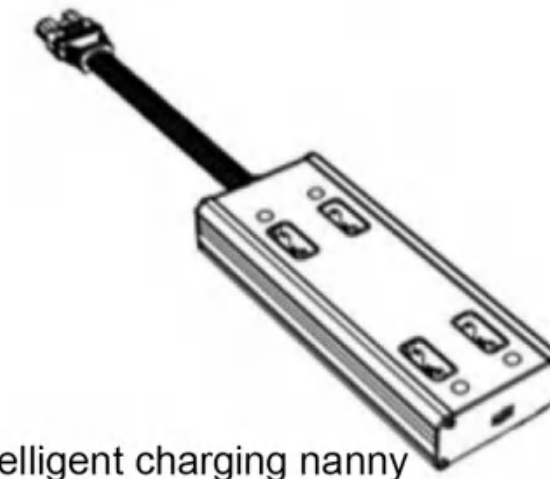


Packaging List

- ① Drone intelligent dual channel charger
- ② input power cord
- ③ Certificate of conformity
- ④ User manual

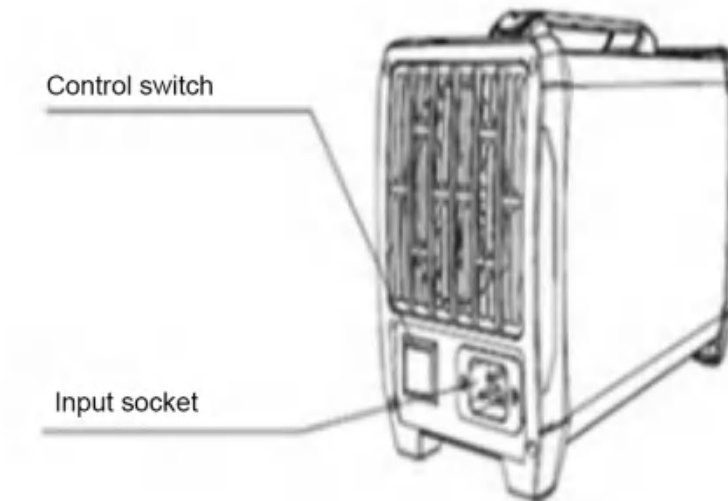


Additional accessories required



Intelligent charging nanny

1. Rechargeable battery type: Lithium polymer battery
2. Number of batteries plugged in: 4 (max)
3. Charging method: nanny charging, once One, take turns charging
4. Channel status indicator light: green LED light
5. Display mode: LED display;
6. Supports battery string count: 12S/13S/14S
7. Charging current: according to the charger



Charger Parameters

Size: 340 * 195 * 145mm

Weight: 5.5kg

Input power: AC120V-240V

Input rate: 50-60HZ

Charging power: 3000W MAX

Support pool string count:12S/13S/14S

Silent insertion: AS150U

Charging channel: 2

Balanced current (maximum):550mA

Static power consumption (maximum):310mA

Charging current (maximum):55A (when entering a fast pool) (1 BATTERY)

Charging twice requires a nanny to charge

Equipped with Yunzhuo H12 LCD remote control

The H12 series adopts a brand new Qualcomm processor, equipped with an Android embedded system, advanced SDR technology, and super protocol stack. Make the image clearer, eat lower, distance farther, and have stronger anti-interference ability. It can be applied to 50-60 drones, robots, industrial control equipment, etc. Supports SIM/digital camera, serial port, S Rich interfaces such as BUS. Plant protection FPV security, fire protection, electricity, surveying robots, border defense, etc. can all be handled with ease, such as on-site performance. Using waterproof, dustproof, and anti drop materials and structures, ensuring not only good hand feel but also durability!


Remote control parameters

Product model:	H12	Number of channels:	12
Work Jade:	4.2V	Emission power:	20DB@CE / 23DB@FCC
Paragraph:	2.400-2.483GHz	Jump:	New FHSS Jump
Upgrade:	Online APP upgrade	Weight:	530g
Size:	190 * 152 * 94mm	Pool:	10000mA/H
Flight time:	6-20 hours	Charging interface:	TYPE-C
Using:	Straight aircraft, fixed wing, multi rotor, vehicle and ship		


Receiver parameters

Product model:	R12	Number of channels:	12
Work Jade:	4.5-5.5V	Workflow:	14mA@5V
Size:	51 * 41 * 12mm	Weight:	14g







Ultra high definition
1920 * 1080 1000nits
5.5-inch high brightness display screen




FHSS technical dog
full angle gain day,
measuring pulling distance of 5-30
kilometers




10000mAh pool,
6-20 hours



Super strong stretchability
Super user-friendly
S. Multiple interfaces for BUS/PPM/PWM/serial port



Provide SDK and documentation



Android series for drones

Carbon fiber machine rod

Advantages of carbon fiber poles: They have excellent corrosion and heat resistance, can withstand the corrosion and thermal expansion effects of water and various media in nature, and can meet the special requirements of long storage life of drones under various environmental conditions, reducing the cost of service life.



Yifei Special Medicine Box

Advantages:

1. Lightweight, high strength, and durable;
2. Equipped with a scale. The loading capacity is clearly visible;
3. Double filtration, filtering impurities from water into the water pump to protect it.



Lid anti loss design



Secondary filter screen at the water outlet

Product standard configuration



1 plant protection drone



1 high-definition image transmission camera remote control



One dual channel intelligent fast charging charger



1 smart lithium battery



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