

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 50L Plant protection drones

The Qimao 50L agricultural plant protection drone adopts a split platform design, integrating intelligent surveying, efficient sowing, and precise spraying, consolidating strong performance and reliable quality, to



Flight platform configuration parameters

Product Name:	XLP-450	Box capacity:	50L
Product wheelbase:	2170mm	Maximum lifting capacity:	88KG (maximum)
Product weight:	18.5KG (excluding tanks and water tanks)	Amplitude:	4-7m
Fold size:	1010 * 760 * 780mm	Row distance:	2-3km
Product size:	1711 * 1341 * 700mm	Travel time:	15-20 minutes
Control system:	Jiyi K++V2	Homework efficiency:	4-6/MIN
Operating voltage:	81V	Pool:	18s30000
Force system:	Haoying X11MAX	Charging time:	15-20MIN
Maximum Jade Force:	1MPA	Sprinkler flow rate:	8L/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. Dosage detection, can set automatic recording breakpoint for returning without medication
 5. Intermittent spraying, no medicine, low battery return
 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
 10. Dual water pump mode
 11. Realize real-time image transmission
- Daily work efficiency of 1000-1400 acres

50 liter plant protection drone Detailed explanation



Z-shaped folding reduces storage volume, facilitates transportation transfer, and reduces transportation costs.



Adopting a new aluminum alloy folding structure to ensure the body is within a reasonable range while achieving rapid storage and deployment



Simplify the square tube frame structure, enhance the strength of the aircraft body and reduce vibration. Bend the aluminum tube tripod to enhance the strength of the tripod, avoid tripod shaking, and ensure safe takeoff and landing.

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



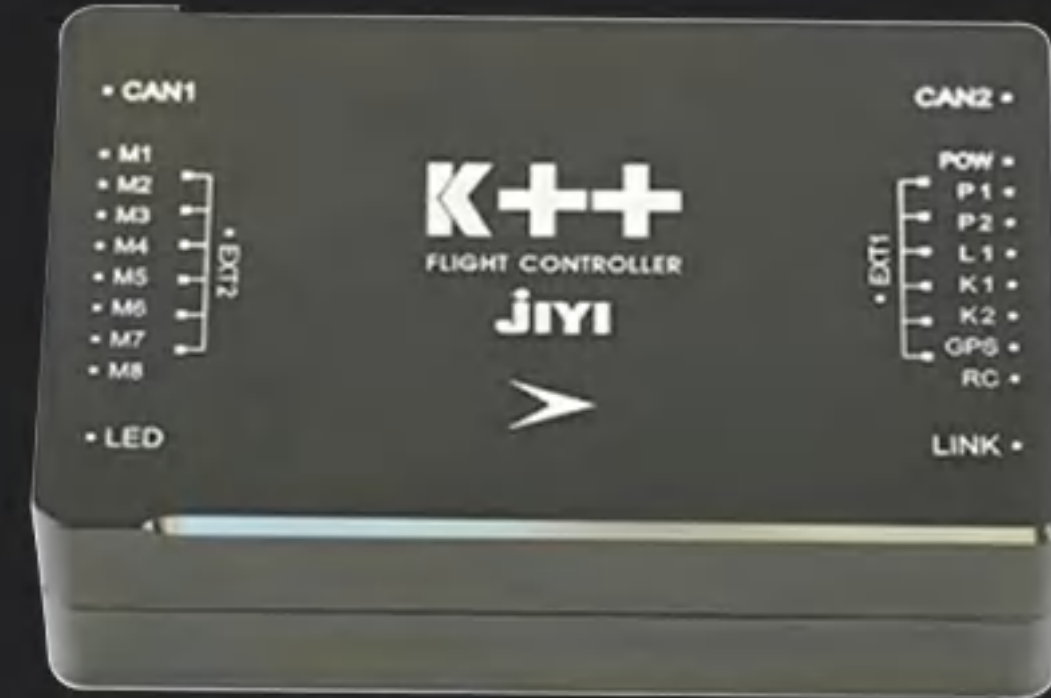
Android series for drones

Plant protection drones

Flight control system wing K++V2

Software and hardware upgrades for increased security

K++V2, as a new generation flag version of the control system, integrates the voltage potential of the classic K3A, and strengthens compatibility and multi redundancy solutions to form a redundant control system. It has excellent performance and strong reliability, effectively ensuring work safety.



Precision control

The flight accuracy of the route has been improved by 25%,
Vertical control accuracy increased by 20%;
More precise trajectory and smoother flight.



Strong seismic resistance

Dual shock-absorbing structure design,
Dealing with various complex vibration impacts, the aging of the frame can also ensure stable flight. Reduce investment in after-sales maintenance.



Multi redundant backup

Triple redundant IMU,
Dual redundant barometer,
Flying is safer.



Noise reduction and power saving
The motor noise is three times lower,
Save 5-15% electricity,
The flying sound is smaller.



No calibration required

The flight accuracy of the route has been improved by 25%,
Vertical control accuracy increased by 20%;
More precise trajectory and smoother flight.



attitude control

Twice the stability of attitude control,
resulting in more stable control,
Better wind resistance.



Dual CPU configuration

Dual CPU configuration,
More powerful processing capabilities,
It can support up to 1000Hz electrical control.



Backup power supply

Autonomous support for backup power interface,
More reliable power supply.

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.



Power package: Haoying X11MAX Power Package

Multiple protection functions

The X11 power system has a series of protection functions such as power on self check, abnormal voltage protection current protection, and locked rotor protection. It can also output real-time operating status data to the flight control, including input throttle amount, response throttle amount, motor speed, bus voltage, bus current, phase current, capacitor temperature, and MOS tube temperature. This enables the flight control to grasp the operating conditions of the electric control motor in real time, improve the flight performance and efficiency of the drone, and improve system reliability.

Note: The HOBBYWINGDATALINK data acquisition memory (note: to be purchased separately) can simultaneously collect real-time operating data of 8 power systems, and transmit it to the flight control system through a bus interface to form a closed-loop control system.



Flat integrated structure

Strengthen heat dissipation and reduce center of gravity

The X11 series powertrain adopts a brand new flat integrated structure design, which reduces the overall center of gravity by 10mm.

The flight system will be more stable and compatible with rack equipment, making it more versatile:

The separation design of electric regulation and motor heat dissipation improves the overall heat dissipation effect of the system.

Compared with the X9 integrated layered structure design, the optimized heat dissipation is 20%~25%, allowing large heavy-duty drones to operate safely and stably in the working range at lower temperatures.



Technical parameters

Maximum tensile force (53.6V):34.3KG

Recommended pool:14S LiPo

Recommended lifting capacity:15-17kg

Powertrain weight:2340g

Electrical machinery

Stator size:111 * 15

KV value:95PRM/V

Internal resistance:zero point zero two three zero

Weight:1015G

Motor size:120 * 45

Output shaft diameter:14mm

Output specifications:120mm straight out

Chaiye installation hole screw:31mm-4 * M3; 36mm-4 * M5

Base screw:66mm-4 * M5

Bearings:Burst ball bearing (waterproof)



Product standard configuration



1 50L plant protection drone



1 high-definition image transmission camera remote control



One dual channel intelligent fast charging charger



Smart battery



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