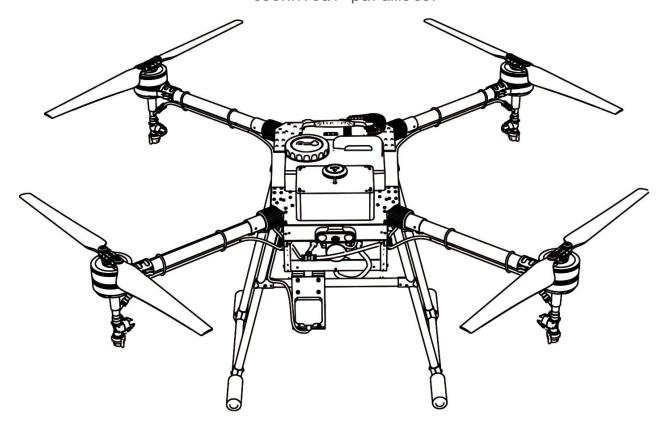
M410agricultural drone

User Manual V1.4 2021.05

- M410 Airplane Introduction
 - Features
 - work efficiency
 - configuration kit
 - technical parameter





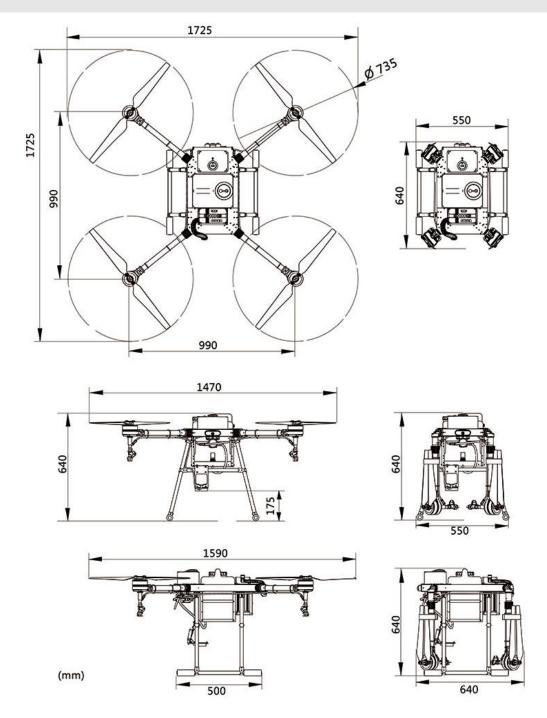
95% of the whole machine is made of carbon fiber and magnesium-aluminum alloy material, modular design, durable and anti-fall, and the simple design is also convenient for later maintenance.



The medicine barrel and battery are quickly disassembled, and there are 2 quick disassembly water tanks as standard, and the next bucket of medicine can be changed in 10 seconds.

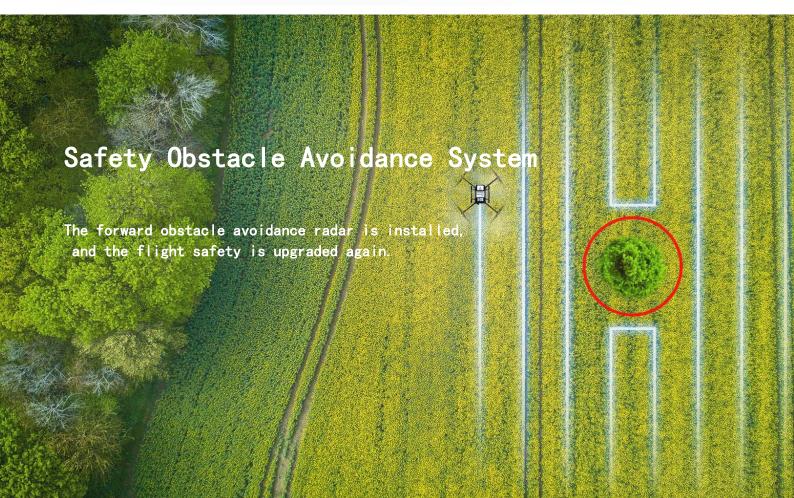


Folding the arm, the size is smaller after folding, and the empty weight does not include batteries and potions of 10KG, which is convenient for transit transportation.



Features

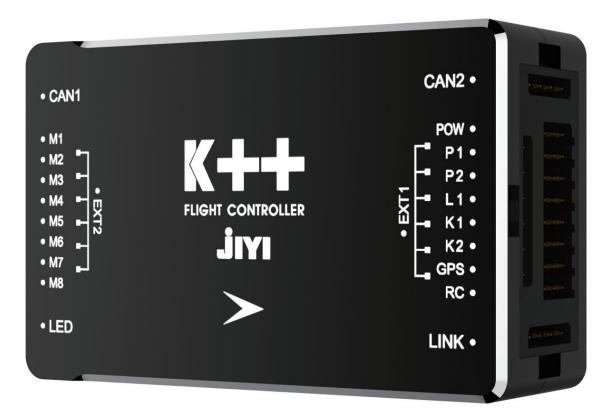


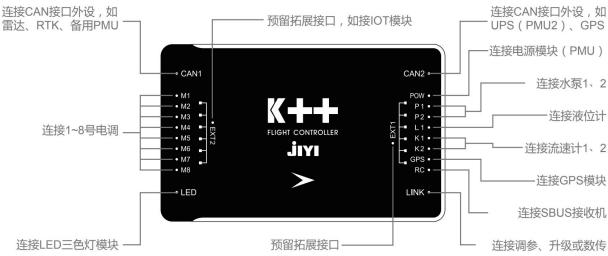






The standard H12 long-distance digital image control integrates an Android remote control. Equipped with a 5.5-inch high-brightness screen, you can see the picture clearly under the hot sun and operate easily. The remote control has a built-in 1000mAh battery with a battery life of 20 hours, which meets the needs of long-term high-intensity operations. There are LED lights on both sides of the high-definition camera, which is convenient for night work.





Airplane Modes and Features

Atti Star protection function, motor sequence detection function, direction detection function, dual water pump mode, drug break protection.



The battery has a built-in safety supervision system. The safety system will supervise the battery itself 24 hours a day. Once the voltage difference is too large, over-discharge, high temperature and other abnormal phenomena, the battery itself will sound an alarm, and the indicator light will flash in different forms. The abnormal state of the battery can be judged according to the abnormal state of the indicator light in the manual.



configuration kit



- M410 Plant Protection Drone Rack *1
- 10L water tank*2
- JIYI flight controller*1
- Altitude Radar *1
- Forward Obstacle Avoidance Radar *1
- Flowmeter *1
- HD image transmission system*1
- 5.5 inch remote control *1
- X8 motor*4
- 30-inch propeller*4
- Spray system *1
- 2400W dual channel charger*1
- 12S 16AH intelligent lithium battery*4
- Spare parts kit*1



No matter how fast after-sales maintenance is, it is not as fast as the spare parts we donate by your side. Do it yourself and say goodbye to the long wait for aftermarket repairs.

technical parameter

frame

maximum wheelbase 990mm

Dimensions 1725mm x 1725mm x 640mm(Arms unfolded, propellers unfolded)

640mm x 550mm x 640mm (Arm folded, paddle folded)

power system

Motor size21*20mmKV value100 KVmaximum pulling force15.3kg/rotorMotor assembly weight1044g

Maximum allowable voltage of ESC 52.2V

ESC maximum allowable current (continuous) 80A

Propeller Diameter*Pitch 30*90 inch

Sprinkler system

Medicine box volume rating: 10 L, full load: 10 L

Spray width 4-5 m (4 sprinklers, about 1.5-3 m from crops)

Atomized particles are 110-230 µ m

•Forward Obstacle Avoidance Radar System

Center frequency 24.125 GHz

Product weight 80g Modulation mode **FMCW** 1 ~ 25m The ranging range is Ranging accuracy 0.1 m Ranging resolution 0.6 m 40Hz The output frequency is Power consumption 3.0 W Operating voltage 9 ~ 28V

Operating temperature -20 ° C ~ + 85 ° C

Protection level IP67 Output interface CAN

Anti-ground/fixed altitude radar system

Center frequency 24.125 GHz

Product weight < 50g Modulation mode FMCW

There is no shelter under the use environment, and try to stay away from water mist

Height measurement range is $0.3 \sim 15m$ (to the earth)

Accuracy of height measurement is 0.05 m Output frequency 50Hz

Power consumption 1.5 W @ 25 ° C

Operating voltage 6 ~ 28V

Operating temperature $-20 \, ^{\circ} \, \text{C} \sim + \, 85 \, ^{\circ} \, \text{C}$

Protection level IP67
Output interface CAN

Flight parameters

The weight of the whole machine (excluding batteries and potions) is 14.5 KG

Standard takeoff weight 24.5 kg Maximum takeoff weight 29kg

Hovering accuracy \pm 0.6 m horizontally and \pm 0.3 m vertically

Smart battery 12S/16000mah

Hovering time 25 min (16000 mAh takeoff weight 24.5 kg)

14 min (16000 mAh takeoff weight 24.5 kg)

Maximum pitch angle 15

Maximum operating flight speed 7 m/s

Maximum horizontal flight speed 10 m/s (good signal)

Maximum withstand wind speed 8 m/s
The maximum take-off altitude is 3500 m

Recommended working environment humidity < 93%

The recommended working environment temperature is $0 \,^{\circ}\text{C}$ to 45 $^{\circ}\text{C}$

Remote control

Operating frequency from 2.4000 GHz to 2.4833 GHz

The effective distance of signal is 20KM (no interference, no blocking)

Display device 5.5 inch liquid crystal display screen

Operating voltage 3.7 V

Charging interface MICRO-USB

For detailed information of products, please visit the contact merchant * If the content is updated, it will not be notified separately.

^{*} The effective working range of the radar module will vary depending on the data, position, shape, etc. of the target object.

^{*} Please comply with local regulations.

^{**} The hovering time is measured near sea level with wind speed less than 3 m/s for reference only.