



## Hexacopter Drone

### RTK Positioning System

The positioning accuracy is accurate to the (CM) level

WHEELBASE: 1280(MM)

THE MAXIMUM DIAMETER AND LENGTH OF THE BLADE EXPANSION: 1360(MM)

FOLDING SIZE : LENGTH \* WIDTH \* HEIGHT = 840 \* 780 \* 535(MM)

WIND RESISTANCE LEVEL: LEVEL 6, IT IS RECOMMENDED TO FLY UNDER LEVEL 4 WIND

CAMERA RESOLUTION: 1080 PIXEL(P) (1920\*1080)



## FULLY AUTOMATIC UAV CHARACTERISTICS

### 1. Automatic Route Planning

PV detection area is selected on the cloud platform, automatically planned flight path, UAV flies and executes task automatically.



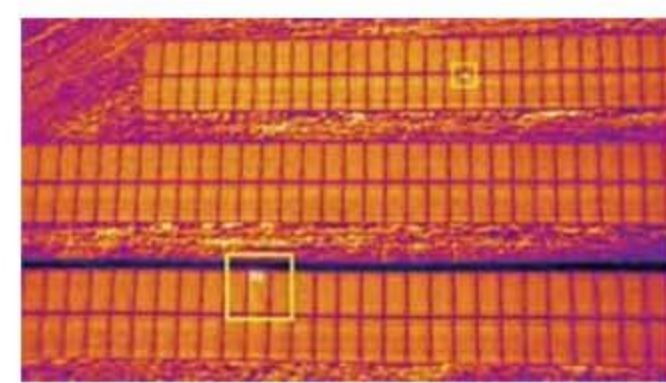
### 2. No Terrain Restriction

Effective use in all kind of terrains such as fisheries, agriculture farms, utility-scale power stations such as desert or hillside and rooftop power stations etc.



### 3. Automatic Hot Spot Recognition

By analyzing PV thermal images, UAV can automatically detect hot spots and accurately locate, which is convenient for maintenance personnel to check and maintain.



### 4. Cleaning PV Panel

UAV can be used in all weather conditions, reducing cleaning costs, reduce solar panel dust accumulation problem, using advanced technology to clean block by block without dead corners.



Conclusion: Through AI algorithm and software control, automatic UAV system can intelligently design flight path and assign tasks, break terrain restrictions and weather restrictions, automatically plan routes, automatically detect hot spots and accurately locate, and send information to the system platform in real time. It can be equipped with a cleaning system to wash PV modules block by block without dead corners, solve the problem of dust accumulation on the surface area of PV modules.

## POWER REQUIREMENTS

<b>DRONE PAYLOAD</b>	<ul style="list-style-type: none"> <li>Take-Off Weight: &lt;30(KG)</li> <li>Load: 4-10(KG)</li> </ul>
<b>PROTECTIVE FRAME</b>	<ul style="list-style-type: none"> <li>Weight: 1.1(KG)</li> </ul>
<b>PARACHUTE</b>	<ul style="list-style-type: none"> <li>Total Weight: 1.6(KG)</li> <li>Quantity: 3 Sets</li> <li>Can carry 30(KG) weight(Including Itself)</li> <li>The minimum opening height is 20(M)</li> </ul>
<b>TETHER SYSTEM</b>	<ul style="list-style-type: none"> <li>Power Supply Device Power: 4.5-6(KW)</li> <li>Power Supply Device Voltage: Input Voltage 220 Volts(V); Output Voltage 48(V)</li> <li>Drone Working Voltage: 48(V)</li> <li>Charger Charging Voltage: Input Voltage 100-240(V); Output Voltage 22-24(V)</li> <li>Power Supply Unit Power Cord Length: 40(M)</li> <li>Weight Of Power Supply Unit Power Cord: 0.8(KG)</li> </ul>

## POWER REQUIREMENTS

LIFTING PUMP	<ul style="list-style-type: none"> <li>The cleaning hose should be kept 40(M), The weight is 4.2(KG) Hose Diameter(D) : 0.64(CM)</li> </ul>
WORK BOX	<ul style="list-style-type: none"> <li>The Work Box is recommended to hold 4(KG), and generally can hold 5(KG)</li> </ul>
RTK POSITIONING SYSTEM	<ul style="list-style-type: none"> <li>The positioning accuracy is accurate to the(CM) level, and the deviation is about 5(CM)</li> </ul>

## DRONE CARRYING

Work Scene	Module	Parts	Parameter
Tether And Pump Mode (Up To 35 )	Drone	Rack	≤8.5(KG)
		Control Units	1.2(KG)
		Power Module For Power Tether	2.1(KG)
		Spraying Device (Spray Gun + Fixed Frame + Recovery Device)	≤2.0(KG)
		Battery For Backup	2.6(KG)
		Protective Frame	1.1(KG)
		Parachute	1.6(KG)
	Total	Weight Of The Drone	19.1(KG)
	Optional	40(M) Power Cord	≤0.8(KG)
		40(M) cleaning hose	4.2(KG)
		Cleaning fluid In Hose Hose Diameter(D)=0.64(CM)	≤1.6(KG)
Total	Weight Of The Drone	25.7(KG)	

Work Scene	Module	Parts	Parameter
On Battery And Load Mode (35 To 70 )	Drone	Rack	≤8.5(KG)
		Control Units	1.2(KG)
		Airborne Spraying Device	3.3(KG)
		Spraying Device (Spray Gun + Fixed Frame + Recovery Device)	≤2.0(KG)
		Battery	5.2(KG)
		Protective Frame	1.1(KG)
		Parachute	1.6(KG)
	Total	Weight Of The Drone	22.9(KG)
	Optional	Load Cleaning fluid	≤4(KG)
Total	Weight Of The Drone	26.9(KG)	

