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WK-1900 华科尔消防应急救援 大载重, 远程高空, 超视距

WALKERA Fire Emergency Rescue,
Heavy load, High Altitude, BVR Firefighting Drone



WK-1900

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大载重长航时 / Long Endurance With Heavy Load

最大可负载50KG，空载状态飞行可达40分钟

The maximum load is 50KG, and the flight can take up to 40 minutes without load

折叠便携设计 / Foldable Design

采用四轴垂直折叠、模块化设计，快速作业，方便日常运输及装配

With four axis vertical folding, modular design, fast operation, convenient daily transportation and assembly



超视距远程高空灭火 / Long Distance High Altitude Fire Fighting Beyond Visual Range

实现远程操控快速灭火，从无人机起飞位置赶赴定制起火点位置执行灭火作业

Remote control and rapid fire extinguishing can be realized, and fire extinguishing operations can be carried out from the takeoff position of the UAV to the customized fire point

30倍光学变焦相机 / 30x Optical Zoom Camera

标配挂载30倍光学变焦相机，超远距离监控，可观察现场的一切细节情况，能有效帮助制定救援方案。

Standard equipped with 30x optical zoom camera, ultra long distance monitoring, can observe all the details of the scene, can effectively help to make rescue plan.

功能介绍

Function introduce

便携折叠机身

机臂采用四轴垂直折叠、模块化设计，快速作业，方便日常运输及装配。

Foldable Design

The arm adopts four-axis vertical folding, modular design, Fast operation, convenient for daily transportation and assembly.



带有夜视瞄准系统

WK-1900拥有超强负载与抗震动设计，配合高倍镜瞄准镜加带有夜视功能的高帧率相机，发射精度高，能够在复杂火场气象环境下远程精准发射灭火弹。通过图传实时在地面控制端显示瞄准目标点，在APP客户端有十字瞄准星，大大提高射击精准性，提高救援效率。

With night vision targeting system

WK-1900 is equipped with a high-power load and anti-tremor design, a high-power aiming mirror and a high-frame camera with night vision function. With high transmission accuracy, WK-1900 is able to fire extinguishing projectiles remotely and accurately in a complex fire weather environment. The target point is displayed on the ground control end in real time through the graph transmission, and the cross target star is available on the APP client, which greatly improves the accuracy of shooting and improves the rescue efficiency.



智能飞行电池

超大容量电池，内置智能电源管理系统，大大提升了飞行时的安全性。标配的大容量电池，单次飞行续航时间长达40分钟。APP内置低电压警报与电量管理，大幅提高电池寿命及工作效率，确保无人机稳定飞行，能更好地为您飞行保驾护航。

Smart Battery, Long Fight time

Large-capacity battery and built-in intelligent power management system greatly enhance the safety during flight. The standard large-capacity battery can last up to 40 minutes in a single flight. The APP has built-in low-voltage alarm and power management, greatly improving battery life and work efficiency, ensuring stable flight of the drone, and better escorting your flight.



30倍光学变焦相机

标配挂载30倍光学变焦相机，超远距离监控，可观察现场的一切细节情况，能有效帮助制定救援方案。还可一机多用，可根据客户不同的需求，挂载不同的设备，比如：红外热成像相机、微光夜视相机等设备。

30X Zoom Camera

A 30x optical zoom camera is mounted as standard, and ultra-long-distance monitoring can observe all the details of the scene, which can effectively help formulate rescue plans. It can also be used in one machine for multiple purposes, and can mount different equipment according to different needs of customers, such as infrared thermal imaging cameras, low-light night vision cameras and other equipment.

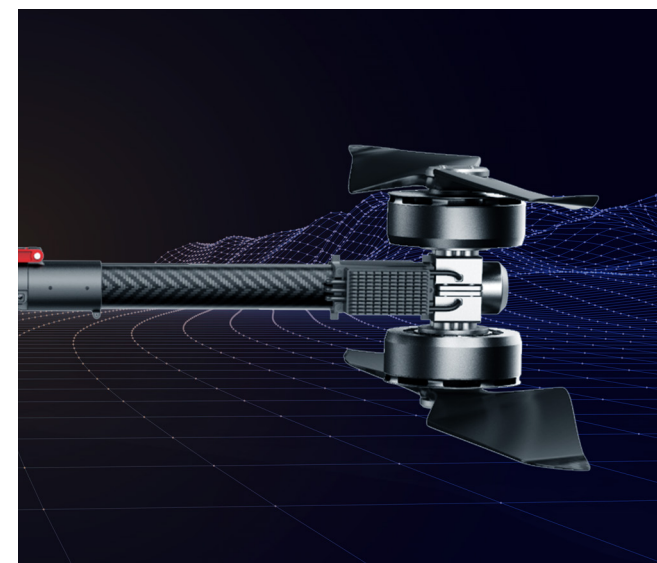


四轴八桨，大载重

采用四轴八桨设计，大大的提升飞行动力，最大可负载50KG，可轻松挂载其他救援设备。

Four axles eight OARS, heavy load

Uses a four-axis, eight-propeller design that greatly lifts the power of flight, with a maximum load of 15KG. Other rescue equipment can be easily mounted.





激光测距可达**100米**，能够识别前方向**3-15米**(可调)的障碍物

激光雷达

采用激光雷达技术，通过高精度传感器打造的智能避障系统，激光测距可达100米，能够识别前方向3-15米(可调)的障碍物并进行刹车减速，防止因误操作带来的风险，保障你的飞行安全。避障和测距双重保护，让你的飞行更加安全，加大救援的概率。

LIDAR

Intelligent obstacle avoidance system made by high-precision sensors, the laser ranging can reach up to 100meters, the obstacle can be identified from 3 to 15meters (adjustable)in the front direction and the brake is decelerated to prevent riskscaused by wrong operation and guarantee your flight safety. Both obstacle avoidance and ranging pro-tction make your flight safer and increase the probability of rescue.



WK-1900大载重干粉灭火无人机
WK-1900 heavy-duty dry-powder fire-extinguishing UAV



瞄准系统APP界面
APP interface of aiming system



WKRC-H15Z1控制地面端
WKRC-H15Z1 controls the ground end

50KG

最大负载
Maximum load

184立方Cubic

灭火体积
Fire volume

8m/秒SEC

飞行速度
The speed

40分钟Minutes

飞行时间(空载)
Flight time (no load)

IP43

防护等级
Protection grade

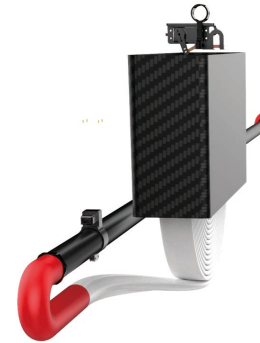


干粉灭火罐模块

干粉净重24kg，总重38kg
充装压力1.2MPa
电控快开方式，喷粉管：碳纤维材质；
长度：展开4.33m（最短可缩到1.5m）

Dry powder fire extinguishing tank module

The net weight of dry powder is 24kg, and the total weight is 38kg
The charging pressure is 1.2MPa
Electrically controlled fast opening mode, dusting tube: carbon fiber material;
Length: Expanded 4.33m (minimum can be reduced to 1.5m)



水带系留喷水模块

可接消防栓、消防车高压供水
喷水管材质：碳纤维
伸缩长度：展开长度3.04m
（最短可缩到1.61m）

Hose Spray Module

High pressure water supply can be connected to fire hydrant and fire truck
Spray pipe material: carbon fiber
Telescopic length: expanded length 3.04m (Minimum can be reduced to 1.61m)



专业破窗模块

破窗速度快，安装简单、操作安全可靠

Professional broken window module

Fast broken window, simple installation, Safe and reliable operation



高空发射器灭火弹模块

灭火弹单发灭火能力：9.2 m³（全淹没）
最大射程：≤50m 种类：ABC超细干粉

High altitude launcher fire bomb module

Extinguishing capacity of single fire bomb: 9.2m³ (all submerged)
Maximum range: ≤ 50M Category: ABC ultrafine dry powder



消防物资运输箱体模块

可装物资净重约45.5kg，总重50kg
可运输消防物资、食品、医药用品等

Fire supplies transport box module

The net weight of the loadable material is about 45.5kg, and the total weight is 50kg
Can transport fire supplies, food, medical supplies, etc

WK-1900消防机干粉灭火作业/Dry powder fire extinguishing operation of fire fighting machine



四轴大载重 | 消防应急

四轴消防灭火无人机，载重量大、抗风能力强、抛撒精度高，可以近距离喷洒灭火干粉。针对高层建筑专用消防灭火无人机。最大负载可达50KG，空载飞行时间可达40分钟。它采用折叠机身设计，超强负载与抗震颤设计，能快速抵达高层火场，利用高倍摄像机观察火势；支持挂载多种消防应用装备。

Four-axis heavy load | Fire emergency

Four-axis fire extinguishing UAV has the advantages of large load capacity, strong wind resistance ability, high scattering accuracy, and can spray fire extinguishing powder in close range. Special fire extinguishing UAV for high-rise buildings. The maximum load can be up to 50KG and the flight time can be up to 40 minutes without load. It folded fuselage design, super load and anti-vibration design, can quickly reach the high-rise fire, using high power camera view examine the fire; Supports mounting of a variety of firefighting applications.

WK-1900消防机水带系留灭火作业/The hose of the fire engine shall be kept for fire fighting operation



大载重 | 远射程 | 流量大

WK-1900水带系留消防灭火无人机，是针对城市高层消防自行设计的，无人机通过高空喷水灭火作业，充分实现了操作人员与火灾现场远距离分隔的优点，能很好地保护灭火人员的人身安全。该无人机具有结构新颖，性能稳定可靠，操作灵活，维修方便、喷水距离远、流量大等特点。该无人机可装载在消防车上，能快速启动升空，通过特制高压水带与消防车水罐连接，消防车水罐内部高效泡沫/水系灭火剂输送到无人机平台，在喷管口水平喷射出去，达到灭火的效果，提高灭火作业效率。

Large load | Long range | Large flow

WK-1900 water belt stay fire extinguishing UAV, is designed for urban high-rise fire fighting, UAV through high altitude water spraying fire fighting operation, fully realize the advantages of remote separation between operators and fire scene, can protect the fire fighting personnel very well body is safe. The UAV has the advantages of novel structure, stable and reliable performance, flexible operation, convenient maintenance, long spray distance and flow rate Big and so on. The drone can be mounted on a fire truck and can be launched quickly through a special high-pressure hose and fire truck water tank Connected, the high-efficiency foam/water extinguishing agent inside the tank of the fire truck is transported to the UAV platform and horizontally sprayed out at the nozzle nozzle, To achieve the effect of fire fighting, improve the efficiency of fire fighting operation.

WK-1900消防机干粉弹灭火作业/Fire extinguishing operation with dry powder bomb of fire fighting machine



夜视瞄准系统 | 覆盖空间9立方米 | 射程40米 | ABC超细干粉

APP端十字瞄准星 单发覆盖范围 灭火器最大射程 灭火剂类型

WK-1900消防无人机带夜视瞄准系统的灭火弹，超强负载与抗震动设计，配合高倍镜瞄准镜加带有夜视功能的高帧率相机，发射精度高，能够在复杂火场气象环境下远程精准发射灭火弹。通过图传实时在地面控制端显示瞄准目标点，大大提高射击精准性，提高救援效率。

Night vision aiming system | Covering 9 cubic meters of space
The range of 40 meters | ABC ultrafine dry powder

APP terminal cross aiming star Single shot coverage
Maximum fire extinguisher range Type of fire extinguishing agent

WK-1900 fire fighting drone with night vision targeting system fire bombs, super load and anti-vibration design, with high power lens sight plus the high frame-rate camera with night vision function has high firing accuracy and can launch fire bombs remotely and accurately under the weather environment of complex fire sites. Through figure real-time display on the ground control terminal aiming at the target point, greatly improve the shooting accuracy, improve rescue efficiency.

WK-1900消防机物资运输作业/Fire engine material transport operation



食物物资配送
Food supply distribution



应急药物配送
Emergency drug delivery



手提式汽油吹风机
Portable gasoline hair dryer



消防配套服装
Fire fighting outfit

长航时 | 大载重 | 超视距

WK-1900运输无人机有投放物品的装置，可投送水、食品、药品、消防物资等，最大负载可达50KG，飞行时间可达40分钟。目前森森及防汛演习中都有无人机投送物资的科目，以及森林救援无人机常态化执勤，还广泛应用在执法喊话，消防救援，高层建筑，森林火灾应急救援。

Long-endurance | Big load | Beyond visual range

WK-1900 transport UAV has the device of dropping items, can deliver water, food, medicine, fire supplies, etc., the maximum load can be up to 50KG, the flight time can be up to 40 minutes. at present, there are uav supplies delivery subjects in sensen and flood control drills, and forest rescue uav is normalized on duty, but also widely used in law enforcement propaganda, fire rescue, high-rise buildings, forest fire emergency rescue.

可拓展应用领域

Can expand the application field



高层应急救援
High-level Emergency Rescue

森林火灾巡查
Forest fire patrol

消防训练演示
Fire Training Demonstration



集装箱码头/Container terminal



化工厂/Chemical plant

无人机消防车应用系统

UAV Fire Truck Application System

城市的高楼层出不穷，越来越高的楼层，给消防救援带去很大的挑战。

华科尔研发的察打一体、双重灭火四轴、六轴大载重消防无人机很好地解决了高层灭火的难点，痛点。目前华科尔灭火无人机可分为高层破窗、喷打一体双重灭火无人机、高层水带喷水灭火无人机、高层大载重干粉灭火无人机、消防应急救援无人机等多种不同应用配置。

为了提高救援效率，进一步弥补常规消防救援中的短板，华科尔联合新余博迅汽车有限公司共同开发了应急救援消防无人机消防车应用系统。该系统经过精心改装设计，可搭载1-2台消防无人机、一台救援侦察无人机、移动地面站、水带系留、干粉灭火罐、灭火弹药等消防应用设备。消防员可实施操控消防无人机实施灭火救援，两台消防无人机可编队轮番作业，并可实时监控现场态势、监管无人机飞行状态等功能，可直接将火灾现场视频实时接消防指挥中心平台；在道路畅通无法接近火场时，消防无人机可以快速到达火灾现场，节省救援时间，提高救援效率，为消防任务保驾护航。

Tall buildings emerge one after another in cities, and higher and higher floors bring great challenges to fire rescue. The four-axis and six-axis heavy-duty fire-fighting UAV developed by Huacol has solved the difficulties and pain points of high-rise fire extinguishing. Now Warcol fire extinguishing UAV can be divided into high-rise broken window, spraying and shooting integrated double fire extinguishing UAV, high-rise water belt sprinkler fire extinguishing UAV, high-rise large load dry powder fire extinguishing UAV, fire fighting Emergency rescue drones and other different application configurations. In order to improve the rescue efficiency and further make up for the shortcomings of conventional fire rescue, huakeer and xinyu boxun automobile Co., Ltd jointly developed the emergency rescue fire UAV fire truck application system. The application system has been carefully modified and designed to carry 1-2 fire fighting drones, a rescue and reconnaissance drone, and mobile ground surface station, hose tethering, dry powder fire extinguishing tank, fire extinguishing ammunition and other fire fighting application equipment. Firefighters can operate fire fighting drones to carry out fire fighting and rescue, two fire without Man-machine can work in formation, monitor the situation of the scene in real time, supervise the flying status of the UAV and other functions, and directly connect the video of the fire scene to the fire command in real time central platform; When the road is not close to the fire site, the fire UAV can quickly reach the fire scene, save rescue time, improve rescue efficiency, for fire fighting mission escort.



无人机应用平台一站式解决方案

UAV application platform, one-stop solution

1. 华科尔无人机全接入、全程可视化飞行控制服务；
2. 实时5G网络操控，突破距离限制；
3. 提供安全可靠的私有云数据存储服务；
4. 提供多种百度地图样式和GIS地图显示服务；
5. 系统平台汇聚了AI识别，火情预警、监测、高层应急救。
6. 各个无人机小组分开作业，对城市多个角落进行监控。
7. 通过华科尔无人机指挥中心软件，在大屏同时收看多台执行任务的无人机监控图像，并显示每个作战小组的地理位置，帮助指挥官准确决策。
8. 配合30倍光学变焦相机，可广泛应用于救灾救援、安全防暴、交通疏导等用途。
9. 支持12台无人机同时进行实时监控。

1. Walkera UAV full access, full visual flight control service;
2. Real-time 5G network control, breaking the distance limit;
3. Provide secure and reliable private cloud data storage services;
4. Provide a variety of Baidu map style and GIS map display services;
5. The system platform integrates AI identification, fire warning, monitoring, and emergency response for high-rise buildings.
6. Teams of drones work separately, monitoring various corners of the city.
7. Watch multiple channels at the same time on the big screen through the Warhol UAV command center software drones on missions monitor images and display the geography of each combat group position to help commanders make accurate decisions.
8. With a 30x optical zoom camera, it can be widely used in disaster relief and safety riot control, traffic guidance and other purposes.
9. 12 UAVs are supported for real-time monitoring.



消防无人机专用带屏遥控器

针对消防救援的需求，我们专为WK-1900消防无人机而设计带屏遥控器，带屏遥控器集便携与高亮显示一身，在强光直射下也能呈现清晰图像，结合内置APP，让你摆脱使用普通移动设备时的繁杂信息的干扰，更加轻松高效作业。

Firefighting Drone Special Remote Controller With Screen

Aiming at the special needs of Firefighting application, we designed a remote controller with screen for WK-1900 Firefighting Drone. The remote controller with screen is portable and highlighted. It can also display clear images in direct sunlight, with built-in APP, you can get rid of the interference of complicated information when using ordinary mobile devices, and work more easily and efficiently.



高亮显示屏

遥控器集成 7.86 英寸2K高亮显示屏，屏幕最高亮度达 2000 cd/m²，约为普通移动设备的两倍，在强光直射下仍清晰可见，作业更加安全可靠。

High-brightness display screen

WK-1900 Firefighting Drone with screen remote controller integrates 7.86 inch 2K high-brightness display screen with maximum brightness of 2000 cd/m². It's about twice as safe and reliable as ordinary mobile devices, and it's still visible in direct sunlight.



高清图传

WK-1900消防无人机带屏遥控器配备使用先进的2.4G和5.8G双频远距离传输系统，波长长，抗干扰能力强，有效控制距离可达6KM，传输稳定可靠。

HD image transmission

WK-1900 Firefighting Drone with screen remote controller equipped with the advanced 2.4G and 5.8G dual frequency long range video transmission system, long wavelength, strong anti-interference ability, effective control distance up to 6KM, stable and reliable transmission.



消防无人机带屏遥控器定制化系统

定制化Android系统搭配深度优化的 WK-1900APP，摆脱使用普通移动设备时的操作卡顿和繁杂信息的干扰，让作业更高效、安全；同时，系统还支持安装其它安卓APP，从而实现更多影像编辑和分享功能。

Customization system of WK-1900 remote controller with screen

Customized Android System Collocation Depth Optimized WK-1900 APP, Get rid of the interference of operation carton and complicated information when using ordinary mobile devices, and make the operation more efficient and safe; At the same time, the system also supports the installation of other Android Apps to achieve more image editing and sharing functions.



消防无人机带屏遥控器定制APP

针对消防救援的特殊需求，我们专为WK-1900消防无人机而设计的APP，简化操作，轻松作业。可可视化平台，方便操作者统计和监管，实时查看作业的进度、规划作业航线等功能，实时显示作业参数及飞行参数等。

Customized APP for WK-1900 remote controller with screen

To meet the special needs of Firefighting applications, we designed an APP specifically for WK-1900 Firefighting Drone, which simplifies the operation and makes it easy to operate. The monitoring platform can make it convenient for operators to make statistics and supervision, check the progress of plant in real time, operation area, and plan operation routes, etc., and display operation parameters and flight parameters in real time.



技术参数

Technical Paramete

飞行器	
对称电机轴距:	1800mm 2308mm x 2273mm x920mm(机臂展开,桨叶展开) 972mm x 772mm x920mm(机臂折叠)
电机:	KV值: 100rpm/V
电调:	持续电流: 200A(散热条件良好)
支持锂电:	6-14S
桨叶规格:	直径*螺距: (38 *9.5) inch 单个重量: 237g 材质:碳纤维
标准起飞重量:	79.5 kg
最大起飞重量:	130 kg(海平面)
最大上升速度:	5 m/s
最大下降速度:	3 m/s
最大水平飞行速度:	定位模式: 5~10m/s可调(无风环境) 巡航模式: 5~10m/s可调(无风环境) 姿态模式: 15m/s(无风环境)
最大可倾斜角度:	35°
最大旋转角速度:	俯仰轴: 120°/s, 航向轴: 50°/s
最大飞行海拔高度:	5000m
最大可承受风速:	12 m/s
最大飞行时间:	40分钟
推荐工作环境温度:	0°C至+45°C
悬停精度:	悬停精度(GNSS信号良好): 垂直: ±0.5 m; 水平: ±0.5 m (GPS定位正常工作时)

12kg灭火罐	
灭火罐数量:	2个
干粉净容量:	12kg
材 质:	HP295
重量(含干粉):	19kg
充装压力:	1.2MPa
使用寿命:	5年
安装方式:	快挂式
打开方式:	电子快开

水带	
水带规格:	直径: 25mm ;长度:100m (50 m *2) ;
最大压力:	2.0 MPa
喷水管材质:	碳纤维
伸缩长度:	展开长度3.04m (最短可缩到1.61m)

喷粉管	
材 质:	碳纤维
伸缩长度:	展开长度4.33m (最短可缩到1.5m)

相机参数	
影像传感器:	1/2.3英寸SONY IMX117 CMOS
镜头像素:	1200万
ISO范围:	100-3200(视频)/100-1600(照片)
录制分辨率:	4K 30fps
拍照分辨率:	3840x2160
焦距:	6.7-134.5mm
对焦时间:	2秒
变焦倍率:	30倍光学变焦
变倍速度:	大约2.0秒
水平视角:	59.8°-3.0°(广角-望远)
近摄距:	大于5000mm(广角-望远)
视频存储最大码流:	64Mbps
压缩标准:	H.264/H.265
支持文件存储格式:	文件系统FAT32,图片格式JPG,视频格式MP4
支持存储卡类型:	Micro-SD卡, 最大支持128G, 传输速度为Class10及以上或达到UHS-1评级的Micro SD卡

云台参数	
尺寸:	136*98*139mm
重量:	452g
输入电压:	12V
稳定系统:	3轴(俯仰, 横滚, 偏航)
角度控制精度:	静态: ±0.008°; 动态: ±0.02°; 防抖: ±0.008°
可控转动范围:	俯仰: -110°至+60°; 水平: ±150°; 横滚: ±10°
最大控制转速:	俯仰: 30°/s°; 水平: 30°/s;横滚: 直接控角度

遥控器参数	
工作频率:	2.4G/5.8G
最大信号有效距离:	6km(开阔无遮挡, 无电磁干扰)
显示设备:	7.86英寸屏幕,分辨率2048*1536, 亮度2000cd/m ²
	Android系统, 系统内存4G RAM+16G ROM
支持存储卡类型:	最大支持64GB容量的Micro SD卡
工作电压:	7.4V
电池:	7.4V 9000mAh LiPo 2S
推荐工作环境温度:	-10°C至40°C
充电环境温度:	5°C至40°C

飞行辅助电池	
容量:	176000mAh(44000mAh*4)
电压:	45.6V (22.8V*2)
电池类型:	LiHV 12S
放电倍率:	10C

激光雷达测距避障	
测距量程:	100m
障碍物感知范围:	3-15m可调
FOV:	水平20°, 垂直3°
测量频率:	10kHz

Aircraft	
Symmetrical motor wheelbase:	1800mm
Outline size:	2308mm x 2273mm x920mm (Arm extended, blade folded) 972mm x 772mm x920mm((Arm folding))
motor:	KV value: 180rpm/V
Electric regulation:	continuous current:200A (good heat dissipation condition)
Support lithium battery:	6-14S
Blade specification:	diameter * pitch : (38 *9.5) inch Single weight:237g Material: carbon fiber
Standard takeoff weight:	79.5 kg
Maximum takeoff weight:	130kg (sea level)
Maximum rising speed:	5 m/s
Maximum descent speed::	3 m/s
Maximum horizontal flight speed:	Positioning mode: 5-10m / S (windless environment) Cruise mode: 5-10m/s (windless environment) Attitude mode: 15m / S (windless environment)
Maximum pitch angle:	35°
Maximum rotation speed:	pitch axis:120°/s, heading axis: 50°/s
Maximum flight altitude:	5000m
Maximum allowable wind speed:	12 m/s
Maximum flight time:	40 minutes
Recommended working environment temperature:	0 °C to + 405 °C
Hover accuracy: With RTK :	vertical: ± 10cm horizontal: ± 5cm
Without RTK :	vertical: ± 0.5 m horizontal: ± 0.1 m

12 kg fire pot	
Number of Fire Tanks:	2
Dry powder capacity:	12kg
Material quality:	HP295
Weight (including dry powder):	19kg
Filling pressure:	1.2MPa
Service life:	5 years
Installation:	quick hanging type
Open mode:	electron fast open

Water hose	
Specifications of hose:	diameter: 25mm; Length :100m (50 m *2);
Maximum pressure:	2.0MPa
Spray pipe material:	carbon fiber
Telescopic length:	expanded length 3.04m (the minimum can be reduced to 1.61m)

Powder spraying pipe	
Material:	carbon fiber
Telescopic length:	expanded length 4.33m (the minimum can be reduced to 1.5m)

Camera	
Image sensor:	1/2.3inch SONY IMX117 CMOS
Lens Pixel:	1200 Million
ISO range:	100-3200(video)/100-1600(photo)
Video resolution:	4K 30fps
Photo resolution:	3840x2160
Focal length:	6.7-134.5mm
Focus time:	7~8 seconds
Zoom magnification:	30 X optical zoom
Doubling speed::	about 2.0 seconds
Horizontal perspective:	59.8°-3.0°(wide angle-telescope)
Close range:	more than 5000mm(wide angle-telescope)
Max. Video bit stream:	64Mbps
Compression standard:	H.264/H.265
Supporting file storage format:	JPG/MP4
Support memory card type:	Micro-SD card, Max. support :128G, transmission speed of Class10 or above or up to UHS-1 rating Micro SD card

Gimbal	
Input voltage:	12V
Size:	136*98*139mm
Weight:	452g
Stabilization system:	3 axes (pitch, roll, yaw)
Accuracy of angle control:	static: ±0.008°; dynamic: ±0.02°; anti-shake: ±0.008°
Controllable Rotation Range:	Pitch: -110°to+60°; Horizontal: ±150°; Roll: ±10°;
Max. control speed:	pitch: 30°/s°; horizontal: 30°/s°; roll: direct control angle

Remote Control	
Working frequency band:	2.4G/5.8G from 2400MHZ to 2483.5MHZ
Max. transmission distance:	6KM(Open, No Occlusion, No Electromagnetic Interference)
Display device:	7.86inch screen, Resalution:2048*1536, Brightness 2000cd/m ² , Android system, system Memory 4G RAM+16G ROM
weight:	1200g
Working voltage:	7.4V
Built in battery:	7.4V 9000mAh LiPo 2S
Memory card type supported:	
Micro SD card with a maximum capacity of	64GB
Working environment temperature:	from -10 °C to 40 °C,
Charging environment temperature:	from 5 °C to 40 °C

Intelligent Flight Battery	
Voltage:	45.6V
Capacity:	176000mAh(44000mAh*4)
Discharge rate:	10C
Battery type:	LiHV 12S

Lidar ranging and obstacle avoidance	
Range of ranging:	100m
Obstacle perception range:	3-15m adjustable
FOV:	Horizontal 20°, vertical 3°
Measurement frequency:	10KHz