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\*In order to continuously improve user satisfaction, the product will continue to be upgraded,  
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**WK-1800** 消防无人机

**六轴大载重, 消防应急救援**

Six-axis Heavy Load, Fire Emergency Rescue

[www.walkera.com](http://www.walkera.com)

### 六轴大载重 6-Axis large load

六大旋翼电机提升飞行动力，搭载灭火弹及其它救援设备，最大起飞重量：56.10公斤，最大负载重量：20公斤。

6-Axis motors enhance flight power, equipped with fire extinguishing bombs and other rescue equipment, Maximum take off weight :56.10kg and the maximum load weight is 20kg.

### 30倍光学变焦相机 30 X optical zoom camera

标配挂载30倍光学变焦相机，超远距离监控，可观察火场及灾情的一切细节情况，能有效帮助制定救援方案。

Equipped with 30 X optical zoom camera, remote monitoring, It can observe the fire site and all details of the disaster, and can effectively help developing the rescue plan.



### 智能电池，长航时 Intelligent battery, long-endurance

内置智能电源管理系统，标配电池单次飞行续航时长50分钟，APP内置低电压警报与电量管理，确保无人机稳定飞行。

Built-in intelligent power management system, standard battery with a single battery life of 50minutes, APP built-in low voltage alarm and power management to ensure stable drone flight

### 创新桶型折叠设计 Innovative barrel folding design

折叠六轴结构设计，电机提升飞行动力，能搭载灭火弹及其它救援设备。

Six axis structure&folding design, enhanced power system, enable to equip the heavy fire extinguisher and the other rescue payloads.





六轴大载重  
Six-axis large load



### 六轴大载重

WK-1800采用的六大轴设计，大大的提升飞行动力。可轻松挂载其它救援设备。增加救援速度，为消防救援预留时间。

### Six-axis large load

WK-1800 adopts six-axis design, which greatly improves flight power system. It can easily mount the other rescue equipment and save time to increase the rescue speed.

### 折叠设计

机臂采用六轴垂直型结构设计，结构紧凑牢固。折叠之后整机呈现桶状，在保证结构强度需求的同时方便日常运输及装配，减少飞机的占用面积，为工作人员减少装箱的难度节省组装的时间，对运输工具的要求也大大的降低。

### Folding design

The arm adopts a six-axis vertical structure design, which is compact and firm. After folding, the whole machine has a barrel shape, which facilitates daily transportation and assembly while ensuring structural strength requirements, reduces the occupied area of the aircraft, reduces the difficulty of packing for the staff, saves assembly time, and greatly reduces the requirements for transportation tools.

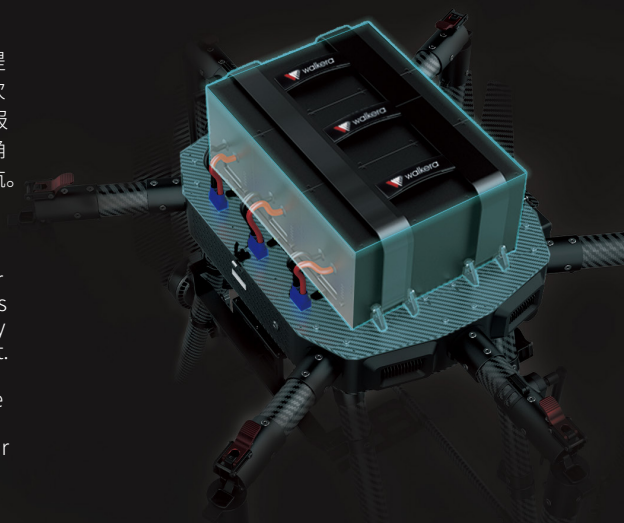


### 智能电池，长航时

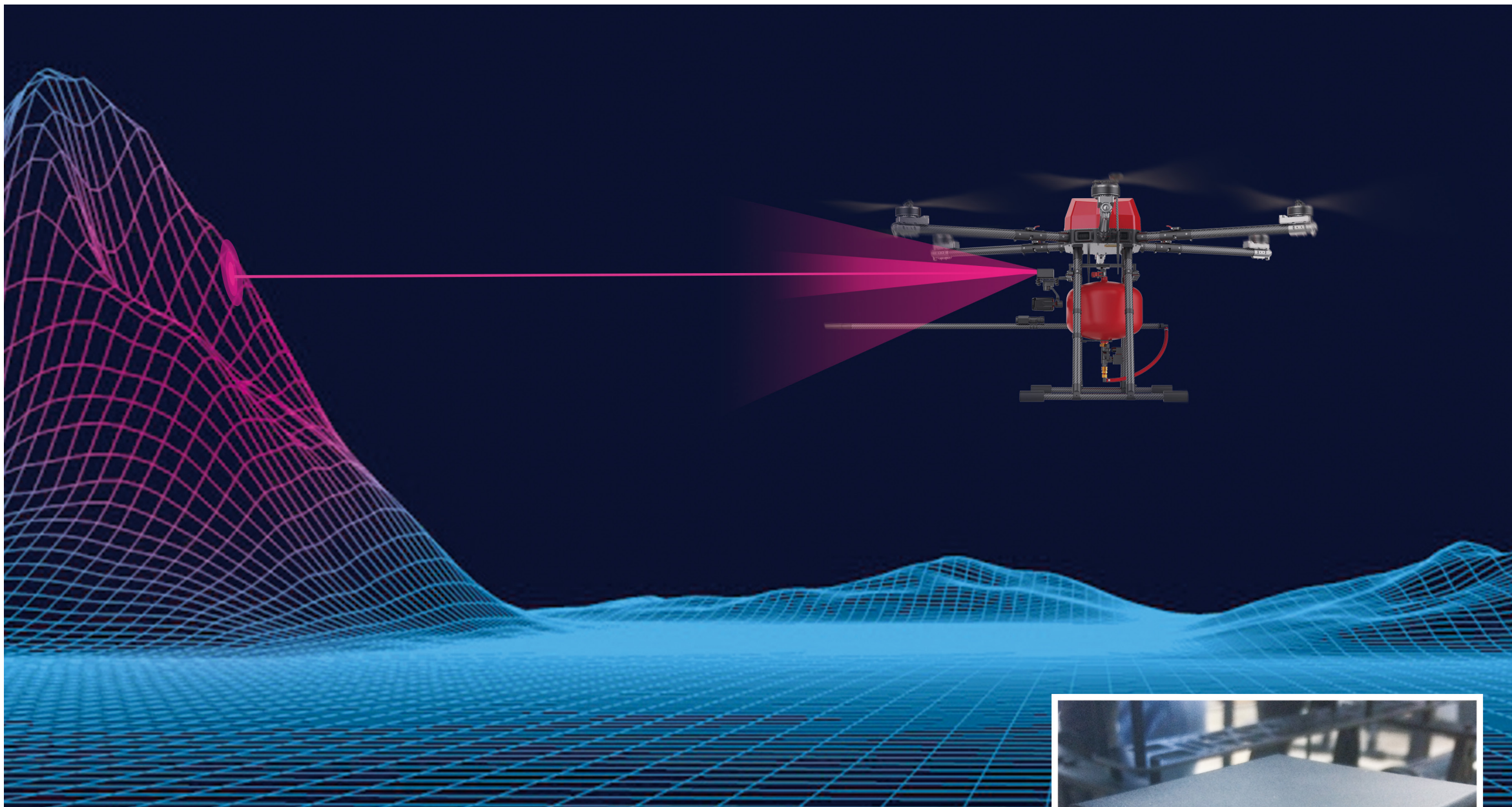
超大容量电池，内置智能电源管理系统，大大提升了飞行时的安全性。标配的大容量电池，单次飞行续航时间长达50分钟。APP内置低电压警报与电量管理，大幅提高电池寿命及工作效率，确保无人机稳定飞行，能更好地为您飞行保驾护航。

### Smart battery, long endurance

uper-capacity battery, with intelligent power management system built in, greatly improves the safety of flight. The standard, large-capacity battery lasts up to 50 minutes on a single flight. Low voltage alarm and power management are built in the APP, which can greatly improve battery life and work efficiency, ensure the stable flight of the uav and better protect your flight







## 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180米，能够识别前方向2-20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 180meters, the obstacle can be identified from 2 to20meters (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 protection make your flight safer and increase the probability of rescue.





带有夜视瞄准系统

WK-1800拥有超强负载与抗震颤设计，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-1800 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-1800 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.



机载火箭发射灭火弹和灭火罐

双重灭火无人机机身下方搭载一支火箭发射灭火弹和 灭火罐，灭火器飞行动力为火箭发射动机，有效发射距离40米，灭火罐喷粉管展开长度4.33米（最短可缩到1.5米）；灭火弹和灭火器采用专用灭火剂装填，高楼层场景下可对火源点进行有效打击，为消防救援提供高空火力压制。

Airborne rocket fire extinguishing bombs and fire suppression bottle

Under the fuselage of the dual fire-fighting drone WK-1800 is equipped with a rocket launcher and fire extinguisher. The fire extinguisher is powered by the rocket launcher, The effective firing distance is 40 meters, and the expansion length of powder spraying pipe of extinguishing tank is 4.33 meters (the minimum can be reduced to 1.5 meters); Fire extinguishers and extinguishers are loaded with special extinguishing agent, which can effectively strike the fire source in the scene of high floors, providing high-altitude fire suppression for fire rescue.



30倍光学变焦相机

WK-1800标配挂载30倍光学变焦相机，超远距离监控，可观察火场及灾情的一切细节情况，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。

30 X optical zoom camera

Equipped with 30 X optical zoom camera, it can monitor the situation from a distance, observe all details of fire and disaster, and effectively help to make rescue plan. It can also be used for many purposes. Different equipment can be mounted according to different demands of customers, such as infrared thermal imaging camera, low light night vision camera and other equipments.



严酷的环境，依然出色

WK-1800双重消防灭火无人机机身采用封闭模块化设计，拥有超强的IP43三防能力，在复杂的环境中依然可以快速展开作业。无论在风雨、尘土还是高温、严寒中都能稳定工作，具备工业级防水、防尘、防腐蚀能力，适应严酷的救援作业环境。

Harsh Environment, Still Outstanding

The fuselage of WK-1800 fire-fighting UAV adopts a closed modular design and IP43 three-proof capability, which can still be operated quickly in complex environments. Whether in wind, rain, dust . The soil can work stably in high temperature and severe cold. It has industrial-grade waterproof, dustproof and anti-corrosion capabilities and is suitable for harsh rescue operation environments.



## 可选配相机云台 \ Optional camera loads



### 4K30倍光学变焦

1200万高清4K画质，30倍变焦  
焦距：6.7-134.5mm  
适用：远距离追踪，监控侦察，安全巡逻

### 4K 30X Optical Zoom Camera

12 million HD 4K 30X Optical Zoom  
Focal length: 6.7-134.5mm  
Suitable to: Long-range tracking surveillance and reconnaissance security patrol



### WK-TLN30 激光补光相机

30倍光学变焦、1080P高清相机  
总像素：216万  
适用：夜间监控侦察，安全巡逻

### WK-TLN30 Laser fill camera

30X optical zoom, 1080P HD camera  
Total pixels: 2.16 million  
Suitable to: Night surveillance and reconnaissance, security patrol



### WK-TIR30 红外双光相机

可见光：30倍光学变焦、1080P高清相机  
红外热成像：25mm 640x480分辨率  
适用：夜间监控侦察，消防、安全巡逻

### WK-TIR30 Dual lens thermal camera

30X optical zoom, 1080P HD camera  
Infrared thermal imaging: 25mm  
640x480 resolution  
Suitable to: Night surveillance and reconnaissance, fire, security patrol

## 可选配消防挂载 \ Optional fire extinguishing mount



### 灭火罐模块

干粉净重12kg  
总重19kg  
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1.61m)

### Fire Suppression Tank

Net dry powder content: 12kg  
Total weight: 19kg  
Filling pressure 1.2MPa  
Electronic quick opening method  
Powder spray tube: carbon fiber material  
Length: Expanded 4.33m  
(the shortest can be retracted to 1.61m)



### 水带模块

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 Module

Can be connected to fire hydrants and fire trucks for high pressure water supply.  
Spray pipe material: carbon fiber  
Telescopic length: Expanded length 3.04m (the shortest can be retracted to 1.61m)



### 航空激光森林灭火弹

弹径：φ180mm  
全弹长：≤400mm  
全弹重：≤5500g  
灭火剂种类：  
“卫士1号”水胶型灭火剂  
灭火剂净重：≥5kg  
弹体主材质：PET、尼龙66  
灭火弹灭火能力：  
灭火剂抛洒半径≥5m  
灭火剂布洒面积：≥40m²  
灭火弹安全半径：≥15m  
安全保险：双保险、隔爆型

### Aerial laser forest fire extinguisher

Extinguisher diameter: φ180mm  
Full length of extinguisher: ≤400mm  
Full weight of extinguisher: ≤5500g  
Type of fire extinguishing: “Guardian 1” water glue type fire extinguishing  
Net weight of extinguishing: ≥5kg  
Main material of projectile body: PET, nylon 66  
Fire extinguishing capability of fire extinguishing bomb:  
Sprinkling radius ≥5m  
Spraying area of fire extinguishing: ≥40m²  
Fire extinguishing bomb safety radius: ≥15m  
Safety insurance: double safety, flame-proof type



### 高空发射器灭火弹

CM60 型机载式发射器  
外管口径：φ67mm  
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 Extinguishing

CM60 Airborne Launcher  
Outer tube caliber: 67mm  
Single fire extinguishing capability of fire extinguisher: 9.2 m³ (full submergence)  
Maximum Range: ≤50m  
Ultrafine Dry Powder mType: ABC Ultrafine Dry Powder



## 可选配其他挂载 \ Other optional loads



### 救生圈抛投

内置1080P高清抛投瞄准镜头  
辅助搜寻精准抛投  
适用:海上应急救援抛投

### Lifebuoy Throwing

Built-in 1080P High Definition throwing aiming lens  
assisted search precision throwing  
Suitable to: marine emergency rescue throwing



### 倾斜相机

APS-C画幅的(单个)2400万像素  
12000万总像素 可1:500测图  
适用:采集城市三维影像、地物测绘

### Tilt camera

APS-C picture (single) 24 million pixels  
120 million total pixels for 1:500 mapping  
Suitable for: acquisition of three-dimensional  
urban images, topographic surveying and mapping



### 条幅宣传

遥控展开、投放  
条幅规格: 80x30cm  
适用:消防演习、法制及广告宣传

### Banner Promotion

Remote control deployment and launch  
Banner Specification: 80x30cm  
Suitable to: fire drills, legal system and  
advertising



### 空中喊话器

喊话广播系统基于无线调频传输技术开发,  
具有远程实时喊话扩音功能。  
工作频率: 409~470mHz  
适用:现场指挥、人群疏散、执法喊话

### Air Caller

Propaganda broadcasting system is developed based on  
wireless FREQUENCY modulation transmission technology  
and has the function of remote real-time propaganda  
amplification.  
Working frequency: 409~470mHz  
Applicable: scene command, crowd evacuation,  
law enforcement propaganda

## 应用场景 \ Application scenarios



干粉罐灭火作业  
Fire Extinguishing Tank Module



垂直抛投作业  
Vertical Dropping Fire Extinguishing Bomb



水带作业  
Fire Hose Driving



编组作业  
Marshalling



## 遥控器介绍 \ Introduction to remote control

### 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-1800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-1800 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/m<sup>2</sup>，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-1800 Firefighting Drone with screen remote controller integrates 7.86 inch 2K high-brightness display screen with maximum brightness of 2000 cd/m<sup>2</sup>, 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-1800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-1800 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-1800APP，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-1800 remote controller with screen

Customized Android System Collocation Depth Optimized WK-1800 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-1800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-1800 remote controller with screen

To meet the special needs of Firefighting applications, we designed an APP specifically for WK-1800 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.





## 案例 \ Application case

### 广东省首届森林消防业务技能大比武

2020年9月，由广东省森林防灭火指挥部、应急管理厅、省林业局共同主办的“广东省首届森林消防业务技能大比武”在广州番禺开幕。本次演练中，华科尔WK-1800消防无人机和应急救援消防车系统前来参与。

#### Guangdong province first forest fire service skills competition

In September 2020, the first Forest Fire Fighting Skills Competition of Guangdong Province was held in Panyu, Guangzhou, co-sponsored by the Forest Fire Prevention and Control Headquarters of Guangdong Province, the Emergency Management Department and the Provincial Forestry Bureau. In this drill, Walkera WK-1800 firefighting drone and emergency rescue fire truck system participated.



### 湖北省森林火灾应急预案演示

2021年12月，WK-1800消防无人机参加湖北省第二届森林消防职业技能竞赛，6架森林消防专用无人机组成的灭火机队犹如“天降神兵”，2架无人机携带水基弹压制火势，3架无人机携带干粉罐灭火，1架无人机携带水管空中作业扑灭明火。

#### Hubei province forest fire emergency plan exercise

In December 2021, Walkera Fire fighting drone WK-1800 participate in the Hubei province second forest fire vocational skills competitions. A team of 6 forest fire extinguishing drones looks like a "Howard", two drones carry water-based bombs to suppress the fire, three drones carry canisters of dry powder to fight the fire, one drone carries water pipes for aerial operations to extinguish open fires.



### 森林消防无人机高空干粉灭火

2021年3月，山东省区域森林火灾应急处置实战演练活动在枣庄市市中区举行，华科尔作为参加本次演练的唯一无人机厂商，上演了一出“无人机灭山火”的实战演习。

#### Forest fire UAV high-altitude dry powder extinguishing

In March 2021, the actual combat exercise of regional forest fire emergency response in Shandong province was held in Zaozhuang City. As the advanced UAV manufacturer participating in the exercise, Walkera staged a real combat exercise of "UAV extinguishing mountain fire".



### 森林消防无人机高空干粉灭火

2021年1月，华科尔消防无人机赴江苏省森林火灾扑救示范性演练，进行无人机挂载干粉、水带等森林灭火实战演练。

#### Forest fire UAV high-altitude dry powder extinguishing

In January 2021, Walkera firefighting drone went to forest fire fighting demonstration exercise in Jiangsu Province, carrying out forest fire fighting actual combat exercise with UAV loaded with dry powder and water hose.



2021年上海119消防演习  
Shanghai 119 Fire Drill in 2021



2021年湖北省武当山开展无人机森林灭火演练  
UAV forest fire extinguishing drill in Wudang Mountain, Hubei Province, 2021



2021年海南省昌江森林防火演习  
Forest fire prevention exercise in Changjiang, Hainan Province, 2021



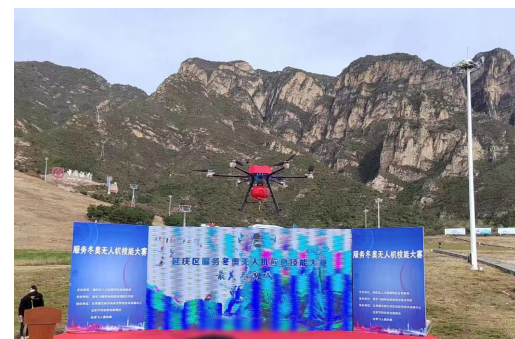
2021年广西桂林消防大队消防演示  
Fire demonstration of Guangxi Guilin Fire Brigade in 2021



2021年西藏拉萨森林消防演习  
2021 Forest fire drill in Lhasa, Tibet



2022年河南省新乡市辉县人民武装部消防演习  
Fire drill of Huixian People's Armed Forces Department, Xinxiang City, Henan Province, 2022



2022年北京延庆区服务冬奥无人机应急技能大赛  
UAV Emergency Skills Competition of Beijing Yanqing Winter Olympics in 2022



2022年孝感市山林灭火军地联合应急救援研究性演练  
2022 Research exercise of military-local joint emergency rescue for forest fire fighting in Xiaogan City



技术参数 \ Technical parameters

| 飞行器     |                                              |
|---------|----------------------------------------------|
|         |                                              |
| 对称电机轴距： | 1900mm                                       |
| 机身尺寸：   | 展开尺寸1800x2070x910mm<br>折叠尺寸950 x1100 x 910mm |
| 续航能力：   | 50分钟                                         |
| 最大起飞重量： | 56.10kg                                      |
| 最大巡航速度： | 10m/s                                        |
| 最大上升速度： | 5m/s                                         |
| 最大下降速度： | 3m/s                                         |
| 最高工作海拔： | 5000m                                        |
| 最大抗风能力： | 12m/s                                        |
| 防水防尘能力： | 基础防水/日常防尘                                    |
| 工作温度：   | -10℃—45℃                                     |

| 瞄准镜   |              |
|-------|--------------|
|       |              |
| 放大倍率： | 3-9倍 (可调)    |
| 调节方式： | 旋转锁定环手调式     |
| 调节量：  | 100码外1呾1/4英寸 |
| 分化线：  | 十字密点分化       |
| 调焦方式： | 物镜调焦         |

| 遥控器(WKRC-H15Z1) |                                                  |
|-----------------|--------------------------------------------------|
|                 |                                                  |
| 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<br>亮度2000cd/m <sup>2</sup> |
| 系统:             | Android系统<br>系统内存4G RAM+16G ROM                  |
| 视频输出接口：         | HDMI                                             |
| 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                                         |

| 激光雷达测距避障 |             |
|----------|-------------|
|          |             |
| 测距量程：    | 180m        |
| 障碍物感知范围： | 2-20m (可调)  |
| 测量频率：    | 10kHz       |
| FOV:     | 水平20°, 垂直3° |

| 相机        |                                                             |
|-----------|-------------------------------------------------------------|
|           |                                                             |
| 传感器：      | 1/2.3 SONY IMX117 CMOS                                      |
| 变焦倍率：     | 30倍光学变焦                                                     |
| ISO范围：    | 100-3200(视频) / 100-1600(照片)                                 |
| 录制分辨率：    | 4K 30fps                                                    |
| 拍照分辨率：    | 3840 x 2160                                                 |
| 变倍速度：     | 大约2.0秒                                                      |
| 水平视角：     | 59.8°- 3.0°(广角-望远)                                          |
| 近摄距：      | 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： | FAT32/JPG/MP4                                               |
| 支持存储卡类型：  | Micro SD/SDHC卡 最大支持128G,<br>传输速度为Class10及以上或达到<br>UHS-1评级的卡 |

| 水带     |                        |
|--------|------------------------|
|        |                        |
| 水带规格：  | 直径: 25mm<br>长度:100m    |
| 最大压力：  | 2.0 MPa                |
| 喷洒管材质: | 碳纤维                    |
| 伸缩长度:  | 展开长度3.04m (最短可缩到1.61m) |

| 灭火罐      |        |
|----------|--------|
|          |        |
| 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   |

| 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) |

| Aircraft                             |                                                     |
|--------------------------------------|-----------------------------------------------------|
|                                      |                                                     |
| Symmetrical motor wheelbase:         | 1900mm                                              |
| Fuselage size:                       | Unfold:1800x2070x910mm<br>Folded: 950 x1100 x 910mm |
| Flight time:                         | 50minutes                                           |
| Max Take off weight:                 | 56.10kg                                             |
| Maximum cruise speed:                | 10m/s                                               |
| Maximum rise speed:                  | 5m/s                                                |
| Maximum decline speed :              | 3m/s                                                |
| Working altitude:                    | 5000m                                               |
| Maximum wind resistance:             | 12m/s                                               |
| Waterproof and dustproof capability: | Basic waterproof/daily dustproof                    |
| Working temperature:                 | -10℃—45℃                                            |

| Sighting telescope    |                                     |
|-----------------------|-------------------------------------|
|                       |                                     |
| Magnification:        | 3-9 times                           |
| Adjusting mode:       | rotating locking ring manual mode   |
| Adjustment:           | One click from 100 yards 1/4 inch   |
| Differentiation line: | Cross - dense point differentiation |
| Focusing mode:        | Objective lens focusing             |

| Remote                              |                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------|
|                                     |                                                                             |
| Working frequency:                  | 2.4g / 5.8g                                                                 |
| Maximum signal effective distance : | 6km<br>(open, no shielding, no electromagnetic interference)                |
| Display device:                     | 7.86-inch screen, resolution 2048*1536<br>Brightness 2000 cd/m <sup>2</sup> |
| System :                            | Android                                                                     |
| System memory                       | 4G RAM+16G ROM                                                              |
| Video output interface:             | HDMI                                                                        |
| Memory card type:                   | supports a microsd card with a<br>maximum capacity of 64GB                  |
| Operating voltage :                 | 7.4V                                                                        |
| Battery:                            | 7.4V 9000mAh LiPo 2S                                                        |
| Recommended operating temperature:  | -10°C to 40°C                                                               |
| Charging ambient temperature:       | 5°C to 40°C                                                                 |

| LIDAR ranging obstacle avoidance |                              |
|----------------------------------|------------------------------|
|                                  |                              |
| Distance measuring range:        | 180m                         |
| Range of obstacle perception:    | 2 ~20 m (adjustable)         |
| Measuring frequency:             | 10kHz                        |
| FOV:                             | Level 20 ° and 3 °vertically |

| Gimbal and Camera            |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
|                              |                                                                                     |
| Sensor:                      | 1/2.3 SONY IMX117 CMOS                                                              |
| Zoom ratio:                  | 30x optical zoom                                                                    |
| ISO range:                   | 100-3200(Video) / 100-1600(Photo)                                                   |
| Recording resolution:        | 4K 30fps                                                                            |
| Photography resolution:      | 3840 x 2160                                                                         |
| Zoom speed:                  | About 2.0 seconds                                                                   |
| Horizontal viewing angle:    | 59.8°- 3.0°(wide Angle - long view)                                                 |
| Near distance:               | 5000mm(wide Angle - long view)                                                      |
| Video storage stream:        | 64Mbps                                                                              |
| Compression standard:        | H.264 / H.265                                                                       |
| Support file storage format: | FAT32/JPG/MP4                                                                       |
| Memory card:                 | Micro SD/SDHC 128G Max a<br>transmission rate of Class 10 and above or UHS-1 rating |

| Water hose           |                                                 |
|----------------------|-------------------------------------------------|
|                      |                                                 |
| Hose size: diameter: | 25mm                                            |
| Length:              | 100m                                            |
| Maximum pressure:    | 2.0mpa                                          |
| Spray tube material: | carbon fiber                                    |
| Expansion length:    | 3.04m<br>(the shortest can be reduced to 1.61m) |

| Fire suppression bottle |                    |
|-------------------------|--------------------|
|                         |                    |
| Net weight:             | 12kg               |
| Material:               | HP295              |
| Weight:                 | 19kg               |
| Filling pressure:       | 1.2MPa             |
| Service life:           | 5 years            |
| Installation method:    | Quick hanging type |
| Open mode:              | Electronic fast    |

| Powder spraying pipe |                                                       |
|----------------------|-------------------------------------------------------|
|                      |                                                       |
| Material:            | Carbon fiber                                          |
| Expansion length:    | 4.33m expansion length<br>(minimum shrinkage to 1.5m) |