



# FE15

## Efficient rescue is our mission

With the development of society, urban high-rise buildings have become a common form of architecture. The high-rise buildings bring great challenges to fire rescue. Fire equipment is unable to arrive at fire location and control it quickly due to the high-rise buildings. In order to solve this problem, Walkera have researched and developed the FE15 fire fighting and fire fighting UAV, it has ability of large payload, strong wind resistance and high precision dropping. It can also launch fire extinguishing projectile in a complex fire environment. FE15 is a special fire fighting unmanned aerial vehicle (UAV) for high buildings, with the design of the foldable fuselage, the design of the super strong payload and anti tremor ability. It can quickly arrive at the high level fire field, observe the fire with high magnification camera, and launch the fire extinguishing projectile.



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## FE15 An airborne rocket fire extinguishing bomb

FE15 fire fighting unmanned aerial vehicle (UAV) carry an 67mm launcher under the drone body whose Fire extinguisher flight power is rocket launch motive ,effective firing distance is 40 meters. The drone also comes with night vision telescope which has low error. The fire extinguishing projectile use special fire extinguishing material to extinguish the fire, one fire extinguishing projectile has 9 CBM covering area. The FE15 drone can provide helpful and efficient support for the fire fighting in the situation of high level buildings.

30X

Optical zoom camera

25Minutes

Flight time

10KG

Max payload

IP67

Three anti-performance

Infrared TOF  
technology

Front obstacle avoidance

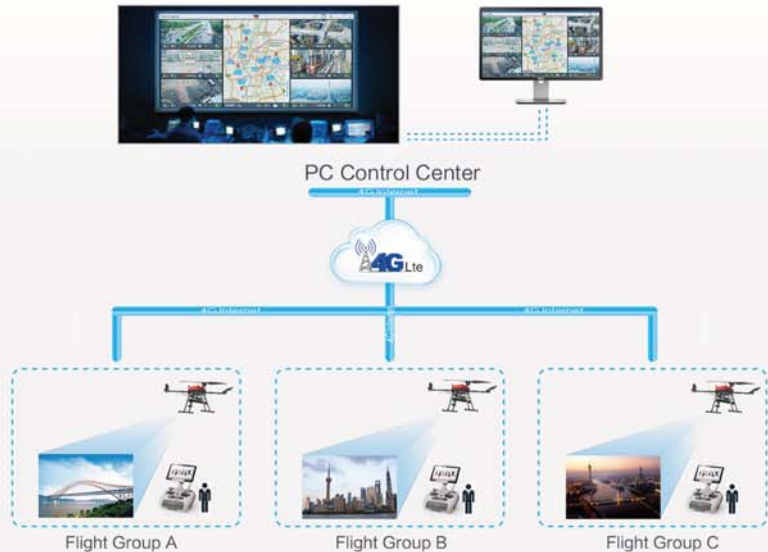
Night Vision  
Aiming System

APP Cross Aiming Star



**The fire fighting drone will be also realized long distance network commanding function soon.**

In the field of security, Walkera has realized 4G commanding system for the drone ,which works with multiple drones .The Israeli Secret Dept. has used the 4G's UAV monitoring system to escort the Prime Minister of Israel. Fire fighting drone will also be able to achieve long-distance remote networking, the fire fighting drones can be deployed at various fire stations in the city. When there is a fire or rescue alarm at any place in the city, the fire fighting UAV can reach the rescue point quickly under the command of the general command department, help fire fighters to make a plan for the rescue work. FE15 fire fighting UAV, efficiently rescue, to provide a strong guarantee for social security.



**30X optical zoom camera**

Standard package comes with 30X optical zoom camera. It can monitor fire location in detailed in a long distance, then help you to make correct rescue plan. You can load different equipments according to different need, like Infrared thermal imaging camera and low light night vision camera.



**Possibility of heavy payload , long flight time**

The design of the four axis rotor structure improves the flight power, which can load up to 15 kilograms. It can carry fire-extinguishing projectile and other rescue equipment. The battery uses high performance and high energy density power battery and equipped with battery management unit. The low temperature performance of the core is optimized and the maximum load flying time can reach 30 minutes.



**Fire extinguishing projectile with night vision aim system**

The ultra strong load and anti tremor design, with the high magnification telescope and the high frame rate night vision camera , have high launching precision. it can launch the fire extinguishing projectile accurately in the complex fire weather environment. The real-time target control points are displayed on the ground control points, which greatly improves the accuracy of shooting and improves the efficiency of rescue.



**Folding body design**

The machine' s arms are designed with four axis transverse folding and embracing structure, and its structure is compact and firm. After folding, the whole machine is embraced, reducing the occupied area of the aircraft, saving the time of assembly for the staff to reduce the difficulty of packing, and greatly reducing the requirements of the transportation tools.



**Always be excellent in the harsh environment**

FE15 fire fighting unmanned aerial vehicle (UAV) adopts a closed modular design. It has super strong three defense capabilities. It can work steadily in wind and rain, dust, high temperature or cold environment. It has the capability of industrial water proof, dustproof and corrosion prevention, and is adapted to the harsh environment of rescue operation.



**Infrared obstacle avoidance**

FE15 fire fighting drone use infrared TOF technology, it can recognize obstacle 5m away in the front and then stop fly forward by intelligent obstacle avoidance system which works under high-precision sensors.





## Cases

### Aircraft:

Body dimension:	Wheelbase $\geq 1500\text{mm}$	Folding dimension: $\leq 700\text{mm}$
Flight time:	25minutes ( no load )	
Payload:	10KG	
Maximum cruise speed:	10m/s	
Maximum lifting speed:	$\geq 5\text{m/s}$	
Working altitude:	$\geq 5000\text{m}$	
Maximum wind resistance:	$\geq 12\text{m/s}$ Waterproof	
Capability:	Basic waterproofing	
Dust resistance:	Daily dust prevention	
Working temperature:	$-10^{\circ}\text{C}$ — $40^{\circ}\text{C}$	

### 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:	4608 x 2600	
Zoom speed:	About 2.0 seconds	
Horizontal viewing angle:	$59.8^{\circ} - 3.0^{\circ}$ (Wide-angle telephoto)	
Near distance:	10 – 1500mm(Wide-angle telephoto)	
Video storage stream:	64Mbps Maximum	
Compression standard:	H.264 / H.265	
Support file storage format:	JPG/MP4	
Memory card:	Micro SD/SDHC 128G Maxa transmission rate of Class 10 and above or UHS-1 rating	

### Remote:

Body(LXWLH):	165x174x62mm
Working frequency:	1.4G/2.4G
Effective signal distance:	About 5KM (Open and unobstructed, no electromagnetic interference)

### Fire extinguisher parameters:

Model	CM60 Airborne Fire Extinguisher
Diameter:	$\phi 60\text{mm}$
Length:	995mm
Weight:	$\leq 3000\text{g}$
Extinguishing agent type:	ABC 超细干粉Superfine dry powder
Extinguishing agent weight:	$\geq 1100\text{g}$
Body material:	Aluminum alloy
Single fire extinguishing ability:	9 cubic meters ( Totally submerged )
Fire extinguisher firing current:	$\geq 700\text{mA}$
Fire extinguisher safety current:	$\leq 150\text{mA}$
Fire extinguisher maximum range:	$\leq 40$ 米 meters
Fire extinguisher launch velocity:	$\leq 35\text{m/s}$
Fire extinguisher injection delay time:	$\geq 5\text{s}$
Fire extinguisher working temperature:	$-40^{\circ}\text{C}$ ~ $+50^{\circ}\text{C}$
Sealed:	moistureproof, non-explosive
Fire extinguisher service life:	5 years

### Shoot machine parameter:

Model:	CM60 airborne launcher
Out diameter Shoot machine :	$\phi 67\text{mm}$
Maximum outer tube diamerr:	$\phi 70\text{mm}$
Shoot machine full length:	1000mm
Shoot machine full weight:	$\leq 1400\text{g}$
60 types of projectile body:	Composite material, alloy
Shoot machine trigger voltage:	12–24V electrical signal
Shoot machine triggered current:	$\geq 700\text{mA}$
Shoot machine usage temperature:	$-40^{\circ}\text{C}$ ~ $+50^{\circ}\text{C}$
Fire extinguisher service life :	5 years $\geq 200$ times.

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