



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.



FE15 Multitask mounting platform

The FE15 flight platform and task module unified interface design can adapt to a variety of task modules to replace the camera or other mission equipment according to your needs to make it a cross-border drone. It can also play an extraordinary role in other areas, at present, Walkera has developed and produced many practical application modules. For example: 30x optical zoom camera, infrared thermal imaging camera, multi-spectral camera, low-light night vision camera, signal transmission stations, rescue equipment etc., Flexible mounting of different devices according to different use environments.



30X optical zoom camera



18X optical zoom camera



Thermal imaging camera



Low light night vision camera



4K camera



Multi-spectral camera



Dual gimbals mounting method



Laser ranging system



Five-lens tilt camera



High altitude transmitter module



Vertical transmitter



Mechanical exploding robot



Cable module



Lifebuoy



Gas detection module



Vertical thrower



Air treble loudspeaker module



Overhead lighting module



Banner



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

50Minutes

Flight time

13KG

Max payload

IP67

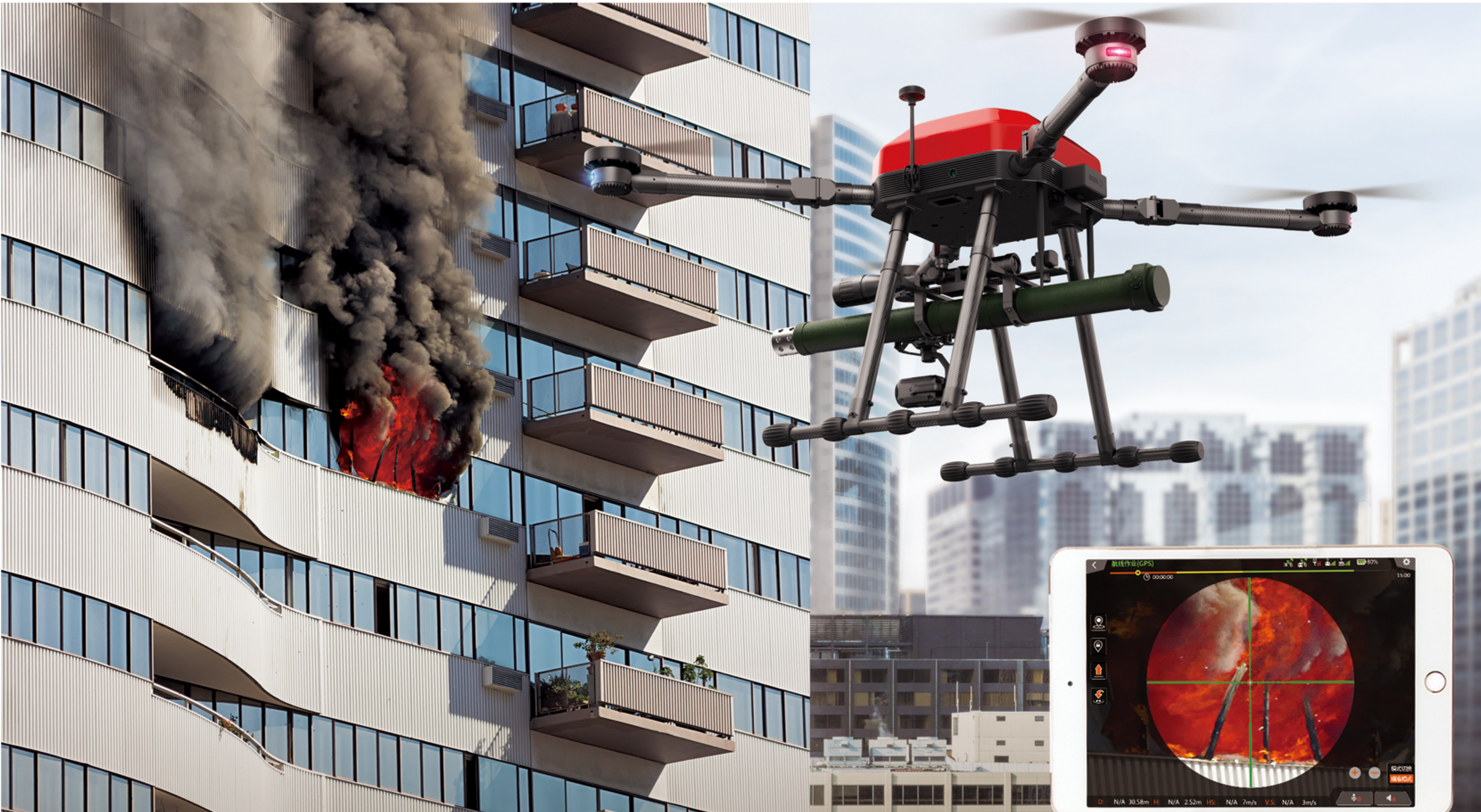
Three anti-performance

Infrared TOF
Technology

Front obstacle avoidance

Night Vision
Aiming System

APP Cross Aiming Star



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 13 kilograms. It can carry fireextinguishing projectile and other rescue equipment. The battery uses high performance and high energy density power battery and equipped with battery management unit. Optimized the low temperature performance of the battery, the flight life can reach 50 minutes



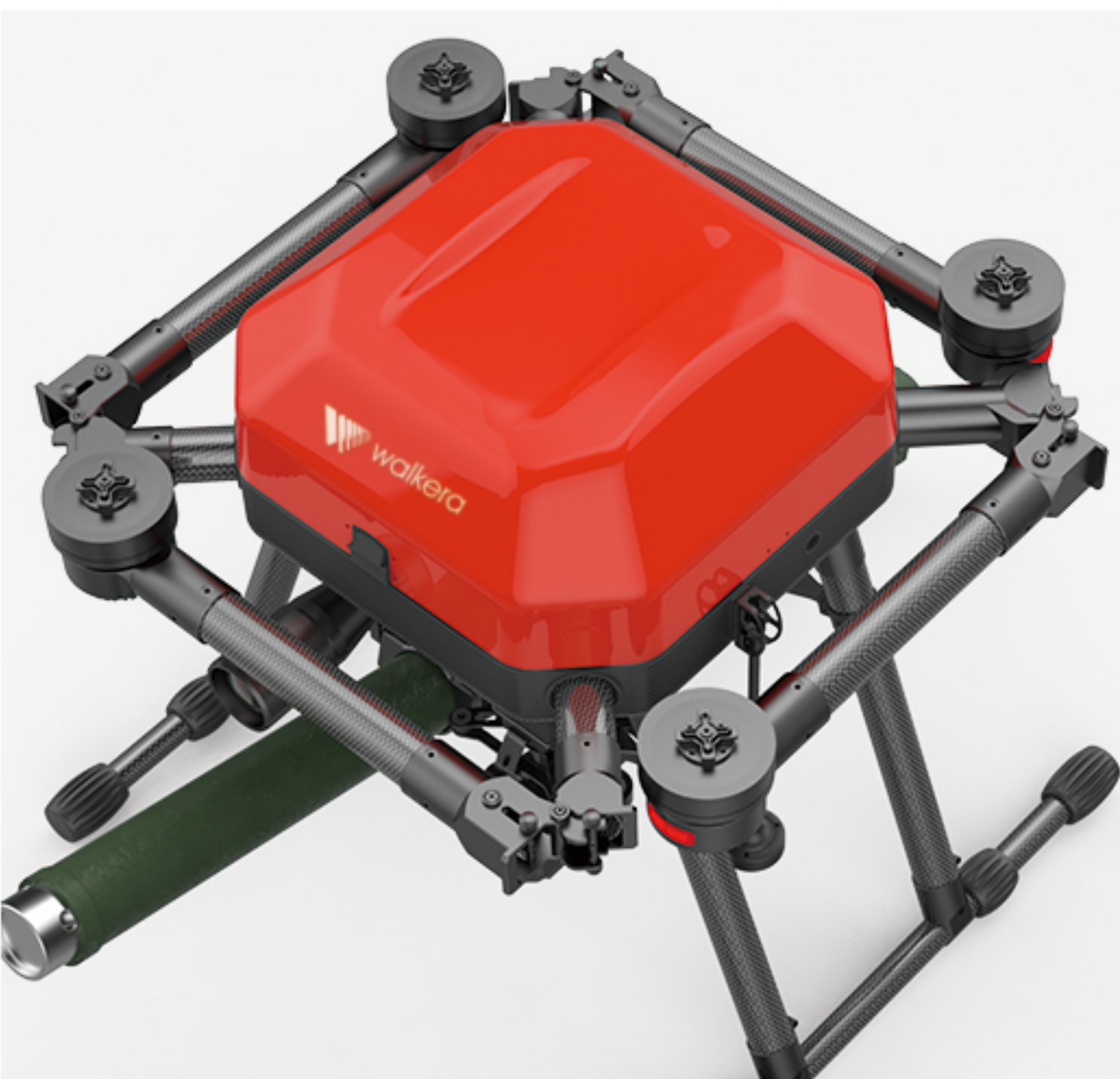
Fire extinguishing projectile with night vision aim system

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 realtime target control points are displayed on the ground control points, which greatly improves the accuracy of shooting and improves the efficiency of rescue.



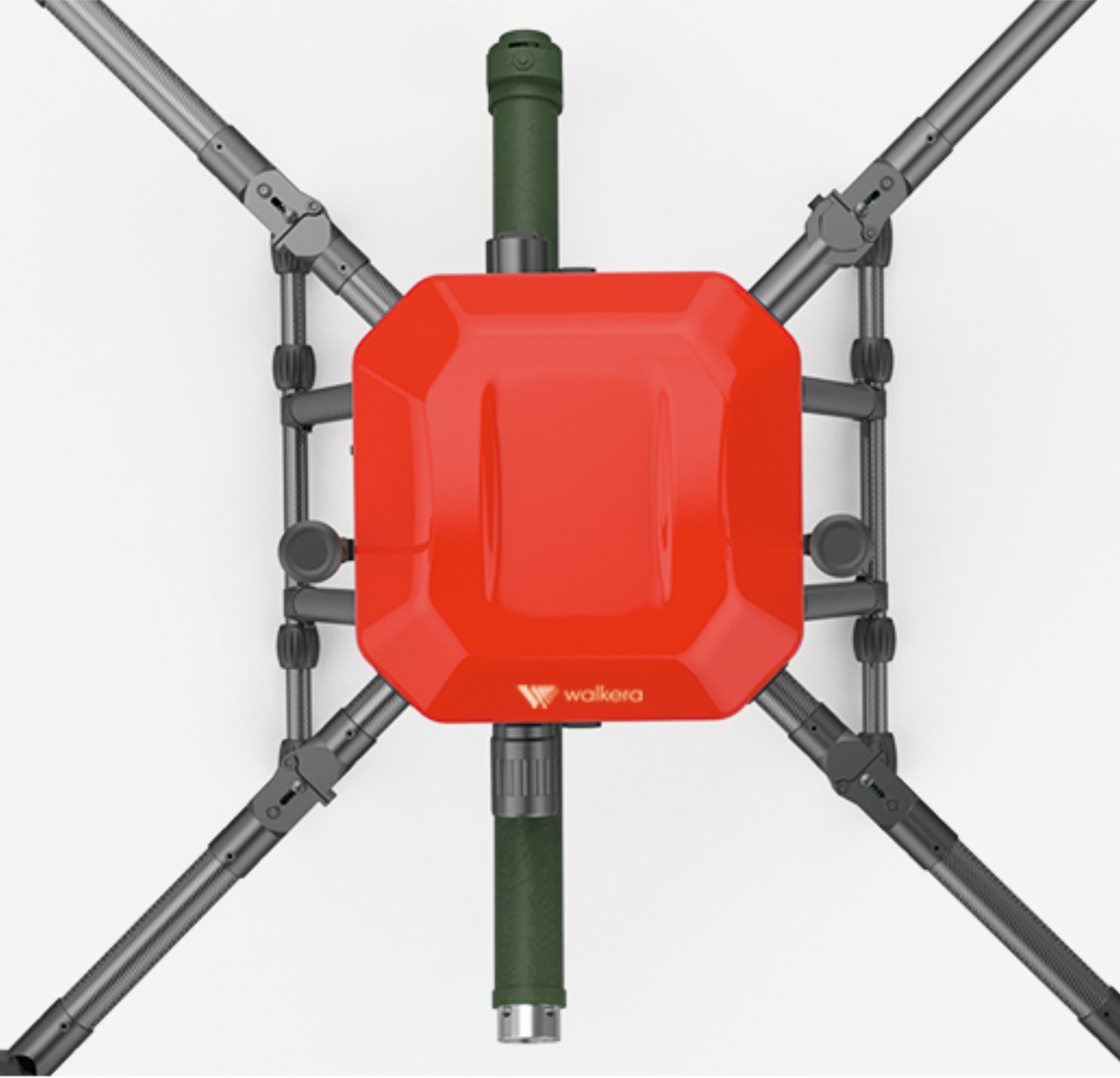
Folding body design

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 highprecision sensors.





FE15 Dual gimbal mounted module

Application area



Police reconnaissance



Traffic forensics



Rescuing



Electricity inspection



Agricultural measurement



Bridge security



FE 15 Accurate aerial
deployment equipment



FE15 Transmitter module

FE15 fire fighting drone equipped with launcher module can launch different ammunition according to the needs of the mission. Built-in collimator, 1080p HD camera, Can play 5 rounds of 38mm caliber bombs/ Tear gas/ Blast bomb/Biochemical bomb/Smoking bomb/ Bullet. Applies to: anti-terrorism, stability, crime, security exercises.



Transmitter module applications:

Anti-terrorism
stability



Combating
crime



Security
exercises





FE15 fire fighting drone

Reaching the scene quickly,
making the rescue more efficient



Aircraft:

| | |
|--------------------------------------|--------------------------------------|
| Body dimension: | Wheelbase≥1500mm |
| | Folding dimension: ≤650mm |
| Flight time: | 50minutes |
| Payload: | 13KG |
| Maximum cruise speed: | 18m/s |
| Maximum rise speed: | 5m/s |
| Maximum decline speed: | 3m/s |
| Working altitude: | 4000m |
| Maximum wind resistance: | 12m/s |
| Waterproof and dustproof capability: | Basic waterproof/ daily dustproof |
| Working temperature: | -10℃—45℃ |

Gimbal and Camera:

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|------------------------------|--|
| 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° – 3.0° (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 Max Cards with a transmission rate of Class 10 and above or UHS–1 rating |

Remote:

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

Fire extinguisher parameters:

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|---|--|
| Model: | CM60 Airborne Fire Extinguisher |
| Diameter: | φ 60mm |
| Length: | 995mm |
| Weight: | ≤3000g |
| Extinguishing agent type: | ABC Superfine dry powder |
| Extinguishing agent weight: | ≥1100g |
| Body material: | Aluminum alloy |
| Single fire extinguishing ability: | 9 cubic meters(Totally submerged) |
| Fire extinguisher firing current: | ≥700mA |
| Fire extinguisher safety current: | ≤150mA |
| Fire extinguisher maximum range: | ≤40 米 meters |
| Fire extinguisher launch velocity: | ≤35m/s |
| Fire extinguisher injection delay time: | ≥5s |
| Fire extinguisher working temperature: | -40℃~+50℃ |
| Sealed: | Waterproof, moistureproof, non-explosive |
| Fire extinguisher service life: | 5 years |

Shoot machine parameter:

| | |
|----------------------------------|---------------------------|
| Model: | CM60 airborne launcher |
| Out diameter Shoot machine : | φ 67mm |
| Maximum outer tube diameterr: | φ 70mm |
| Shoot machine full length: | 1000mm |
| Shoot machine full weight: | ≤1400g |
| 60 types of projectile body: | Composite material, alloy |
| Shoot machine trigger voltage: | 12–24V electrical signal |
| Shoot machine triggered current: | ≥700mA |
| Shoot machine usage temperature: | -40 C ~+50 C |
| Shoot machine usage life : | 5 years ≥200 times |

Intelligence makes it possible



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