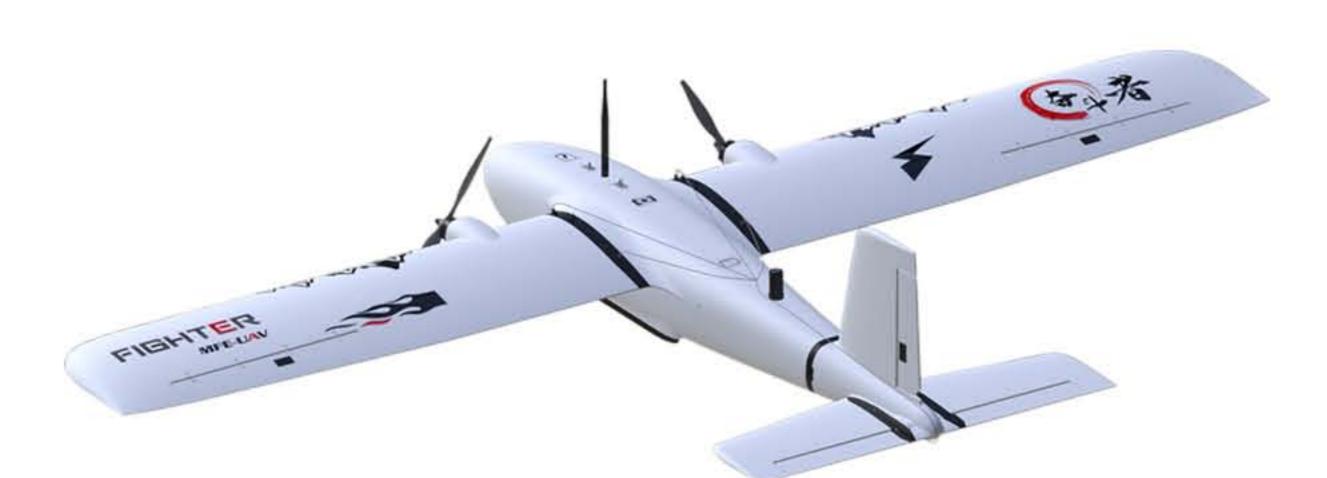
Overview Description

The Fighter (hand version) is a conventional aerodynamic fixed-wing flight platform with large load, long endurance and easy operation



Basic Parameters

Material: EPO,EVA,carbon fiber,PC,engineering plastics and etc.

Fuselage height: 180mm Wing Span: 2430mm

Fuselage length: 1450mm Wing area: 72.5dm2 Suggested flight speed: 17~20m/s Stalling speed: 10m/s

Maximum payload: 1.5Kg Payload cabin

size:280*160*110mm

Longest flight range: >250km (600g load) Max take-off weight:11.5kg

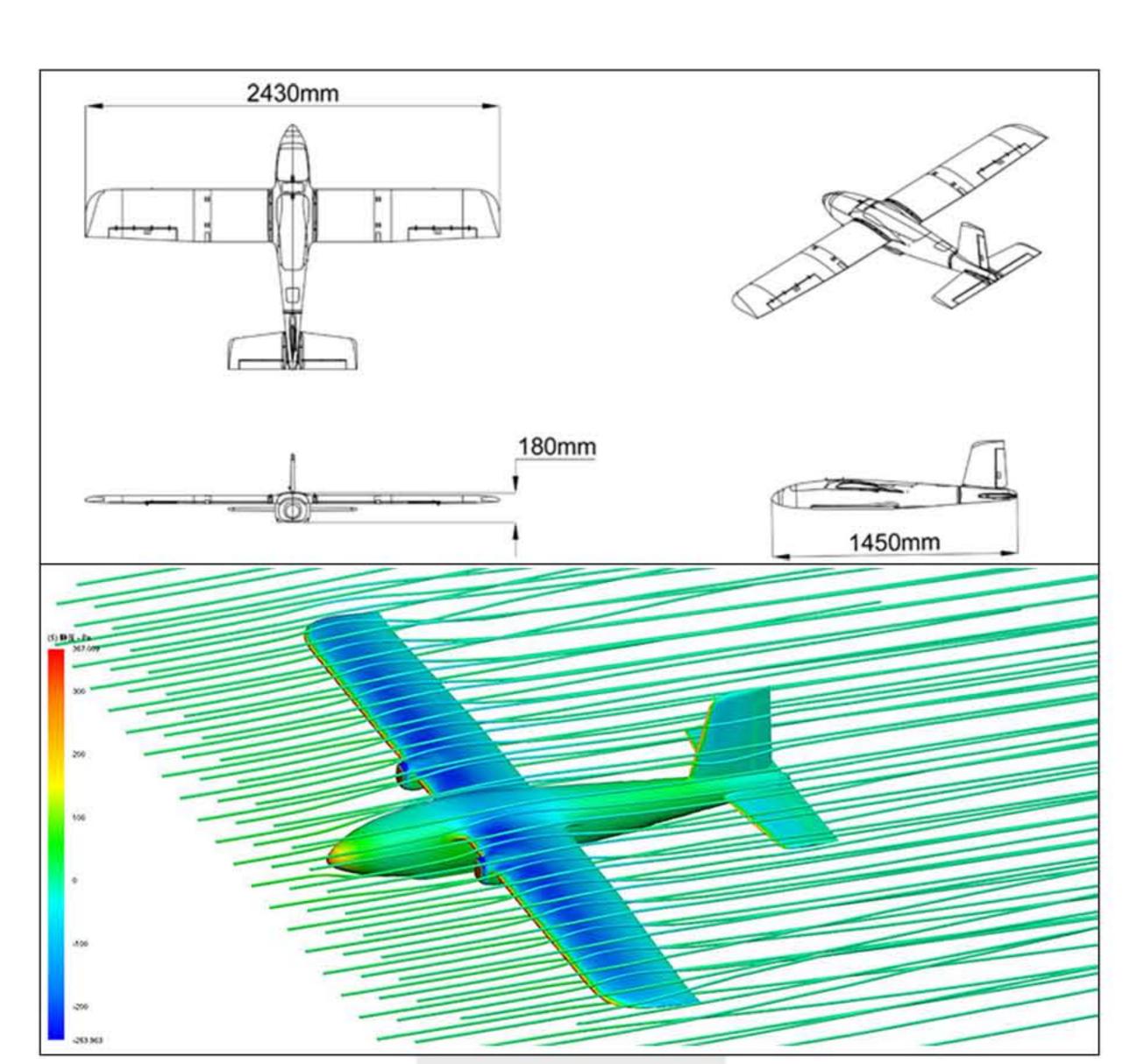
Practical ceiling height: 4000m Wind resistance: 5

Take-off and landing approach: (Hand parachute/Glide landing)

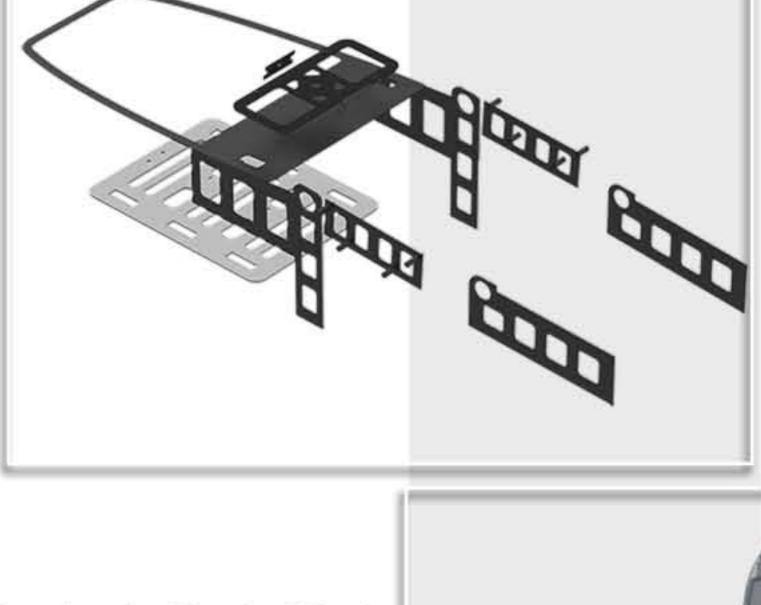
Dismounting way: tool-free

Efficient Aerodynamics

On the basis of the conventional inverted T layout, the Fighter have optimized the aerodynamic figure and relative positions of the wings, horizontal tail, vertical tail, and fuselage



Light but Stable



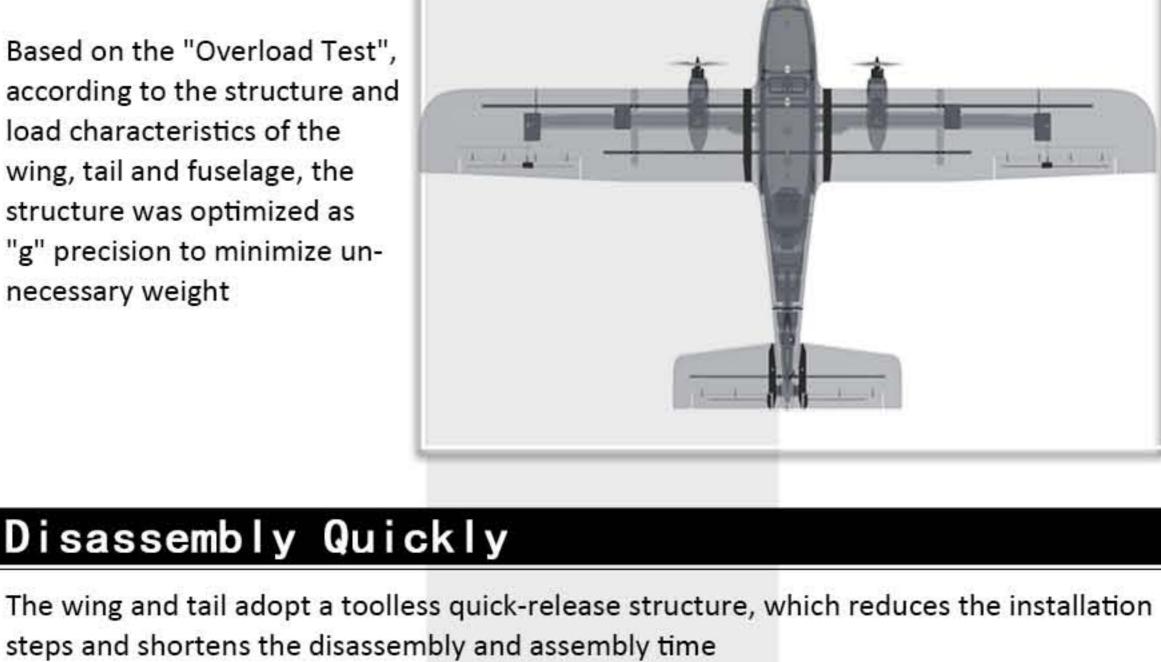
rials, and a large number of embedded box structures are used in figure to improve the structural strength and rigidity of the body in many ways

A large number of high-strength

light PC boards are used in mate-

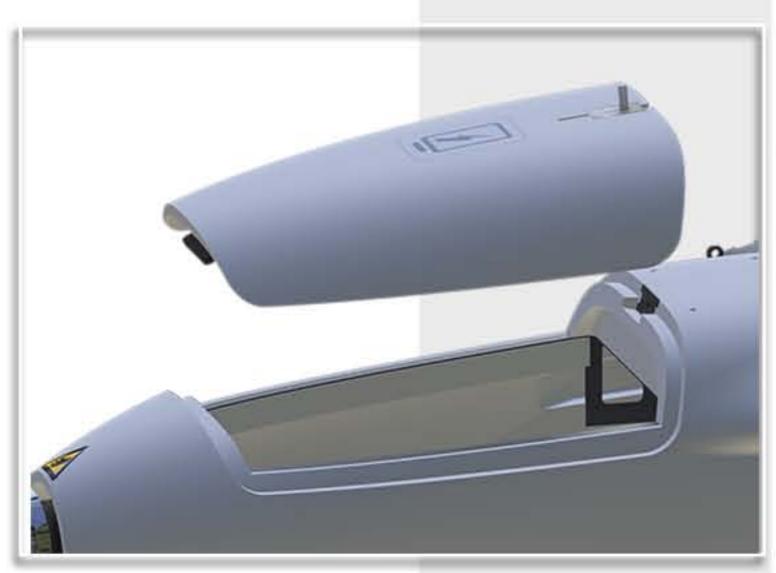
wing, tail and fuselage, the structure was optimized as "g" precision to minimize unnecessary weight

load characteristics of the



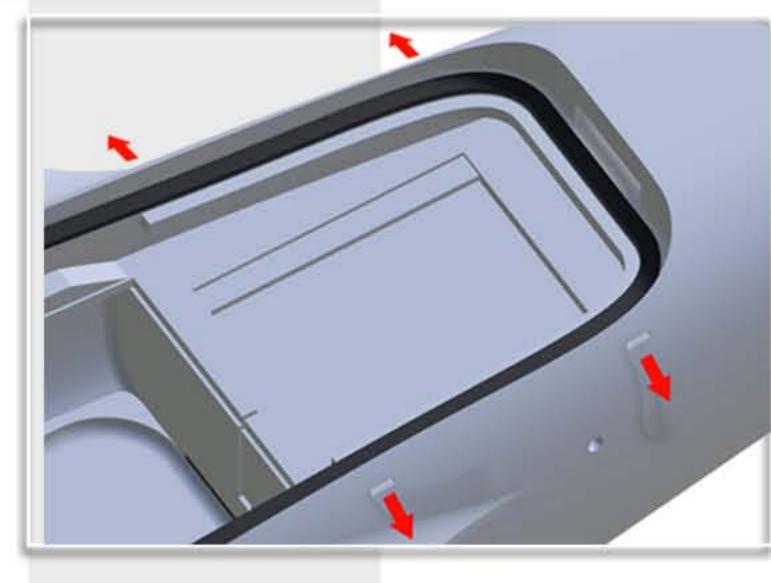


IPX3 Waterproof Level



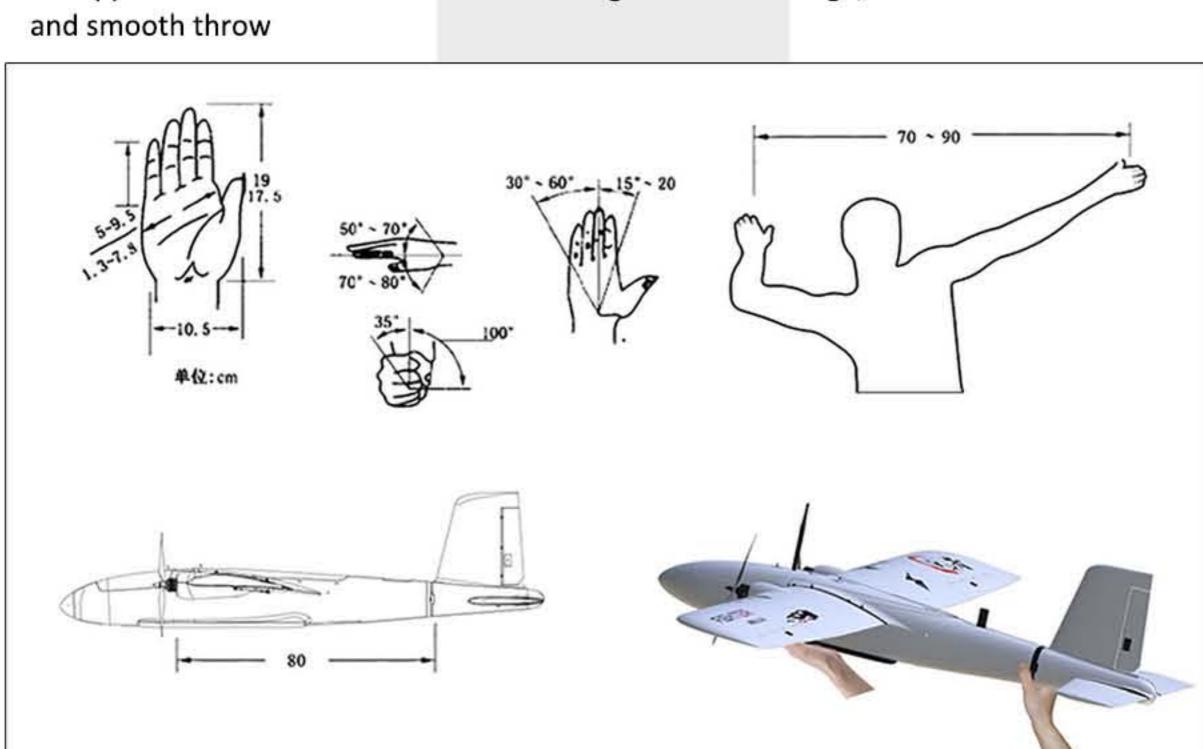
The head cabin cover adopts an integral umbrella structure to prevent rainwater from entering the cabin

The fuselage cabin cover is specially designed with a water channel and a water outlet to ensure that the aircraft has normal flight capabilities in little rain



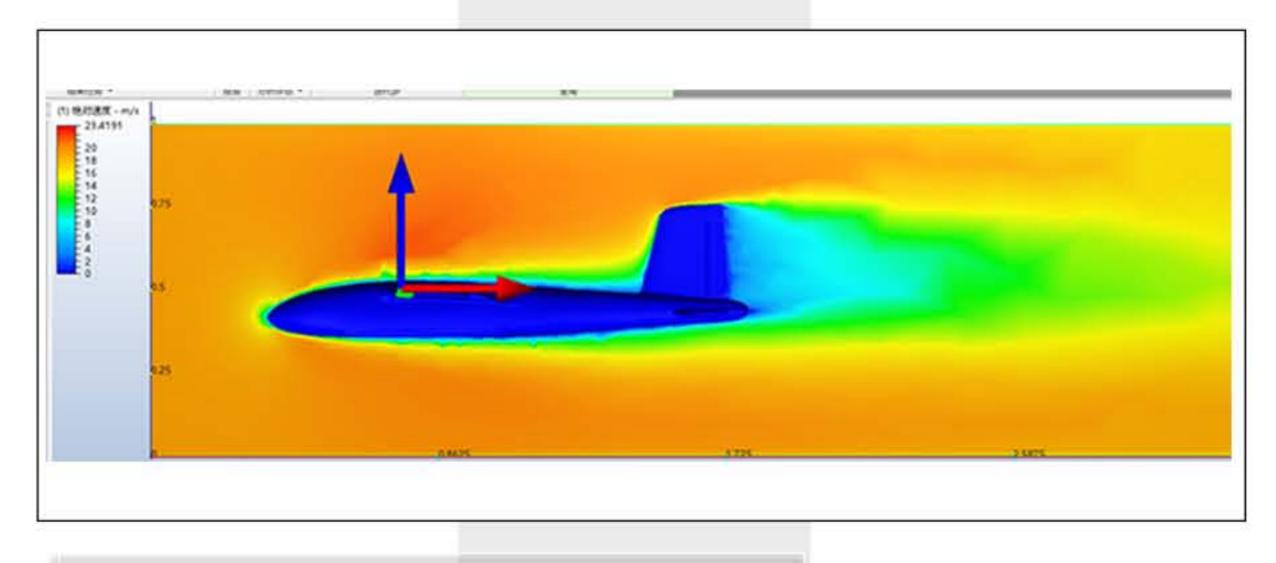
Hand Throw Take Off

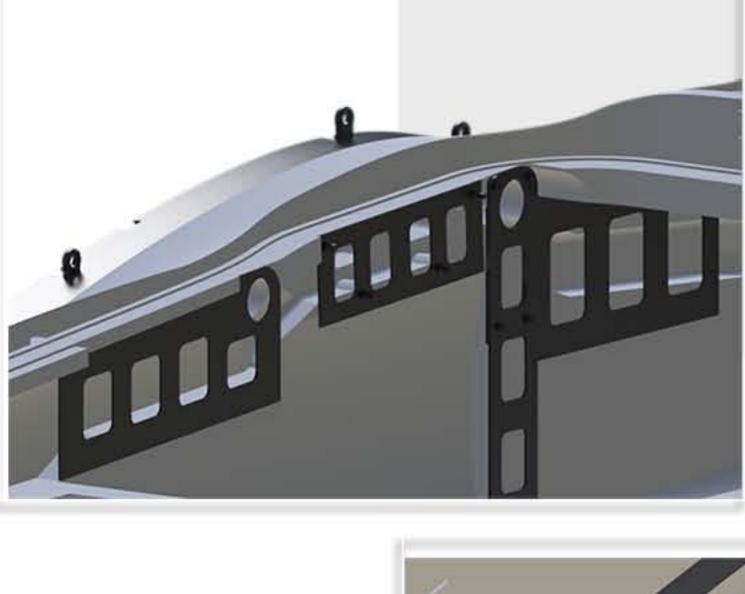
The size of the fuselage at the rear of the fuselage and the distance between the two hands to support the aircraft to achieve the best ergonomic size range, to achieve accurate force and smooth throw



Large Fuselage Cabin, Low Resistance

The fuselage adopts the overall streamline figure, and the flight resistance is reduced as much as possible while ensuring a large space

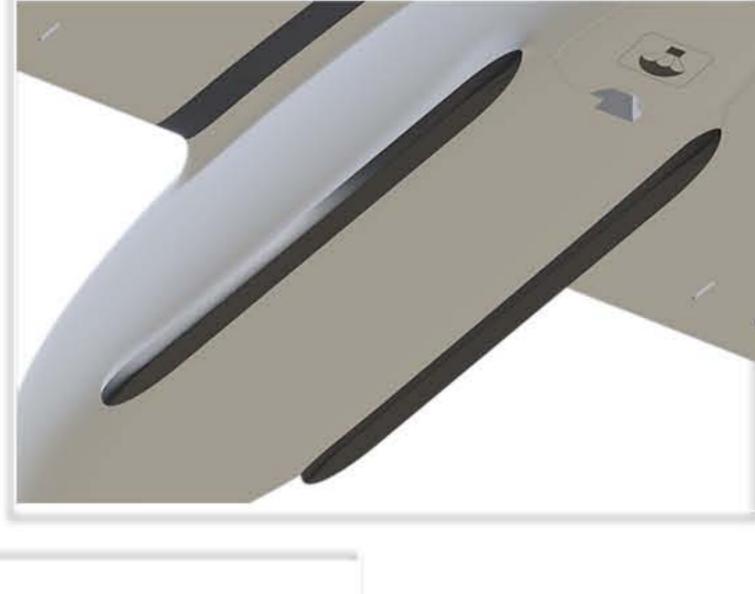


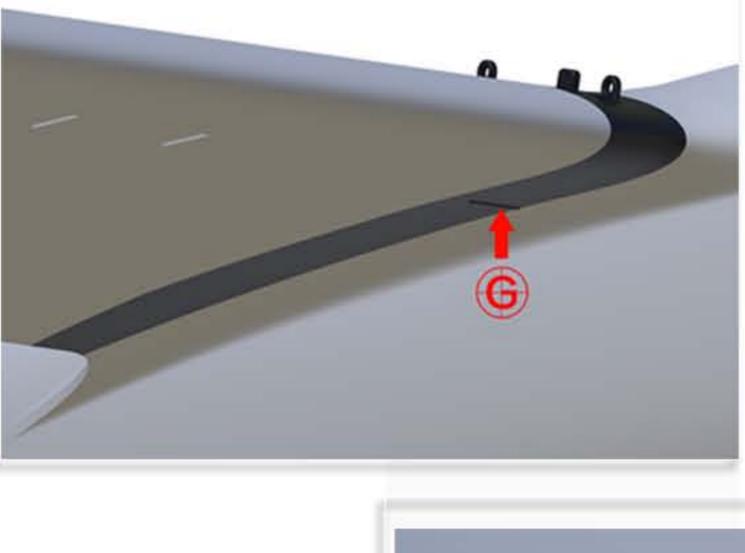


The inside of the fuselage is equipped with a wire groove and a removable baffle, which is matched with nylon braided sleeves to ensure simple and efficient wiring in the cabin

are designed on both sides of the bottom of the fuselage, which does not block the camera hole, shock absorption and wear resistance, and improve the aircraft's course stability

Streamlined EVA cushions





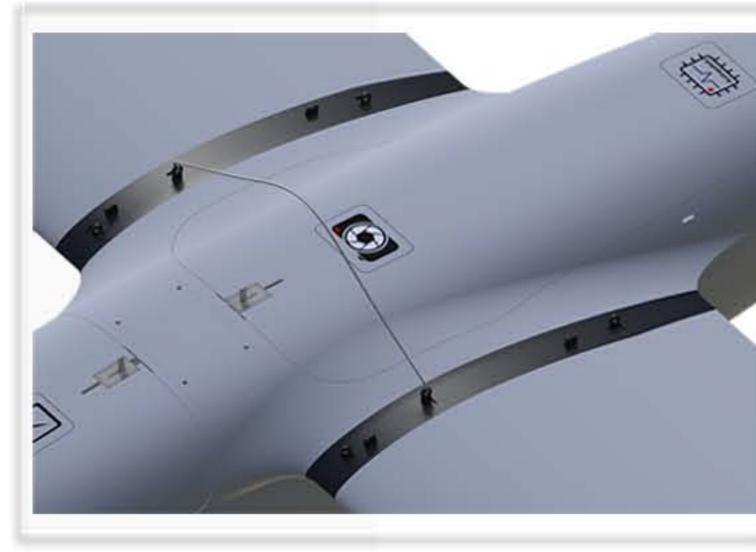
of fuselage hook and the wing root plastic (same position)

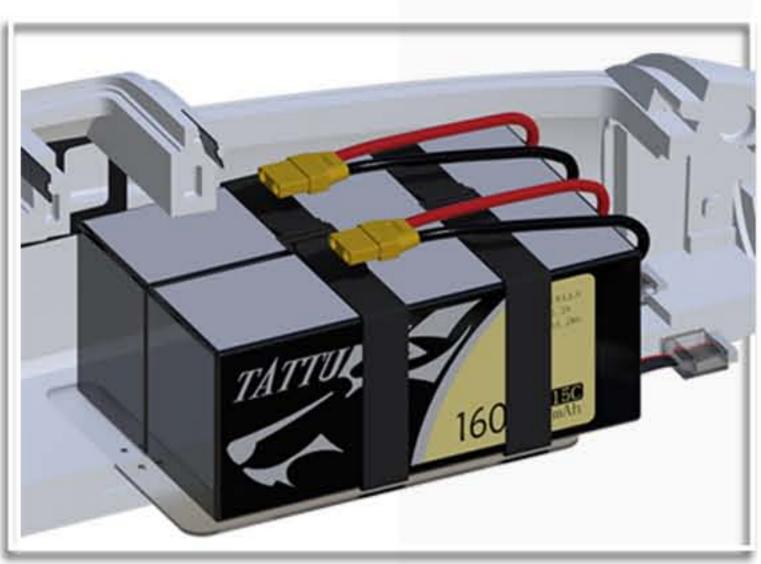
The center of gravity of the air-

craft is under the raised position

The center of gravity of the hand-held lanyard during heavy load, and the center of gravity of the hand-lifted

wing during light load

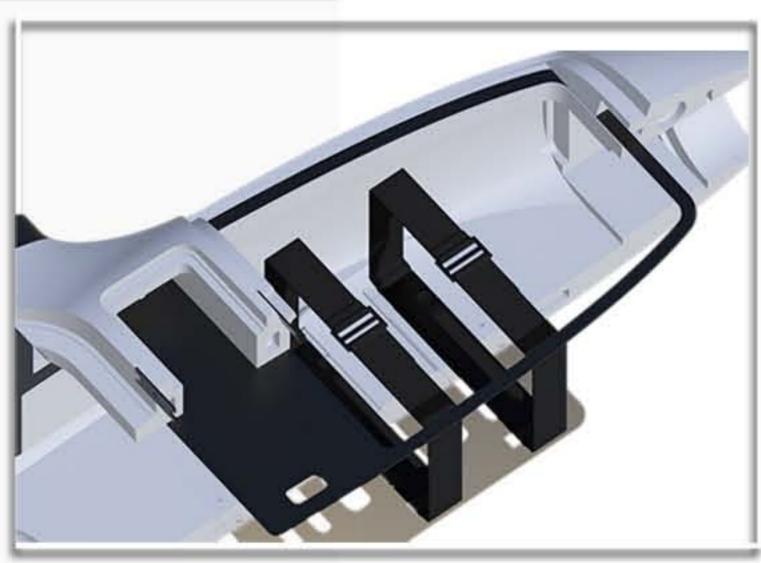




Battery cabin supports 2 6S@16000 / 22000mAh(Li-Po) whitch provides strong power for long endurance

The battery fixed seat is made of PC board and CNC machined, with light weight and good impact resistance

The dual battery cable tie has a reasonable layout, which effectively avoids entanglement



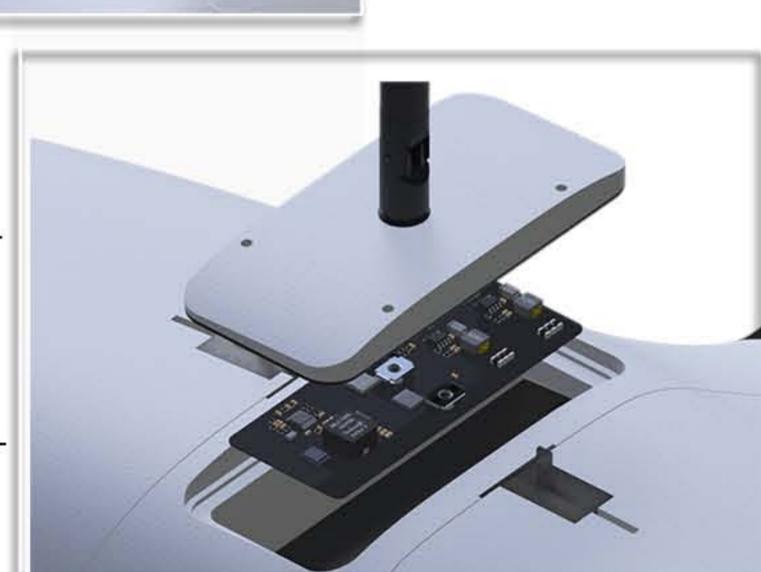
Distribution Cabin



The distribution cabin cover is reserved with data transmission antenna holes, which is convenient for the assembly and disassembly of the antenna

The design of the distribution cabin shortens the wire path and improves the electromagnetic environment of the aircraft

With the power distribution board, the power system of the fuselage can be quickly replaced



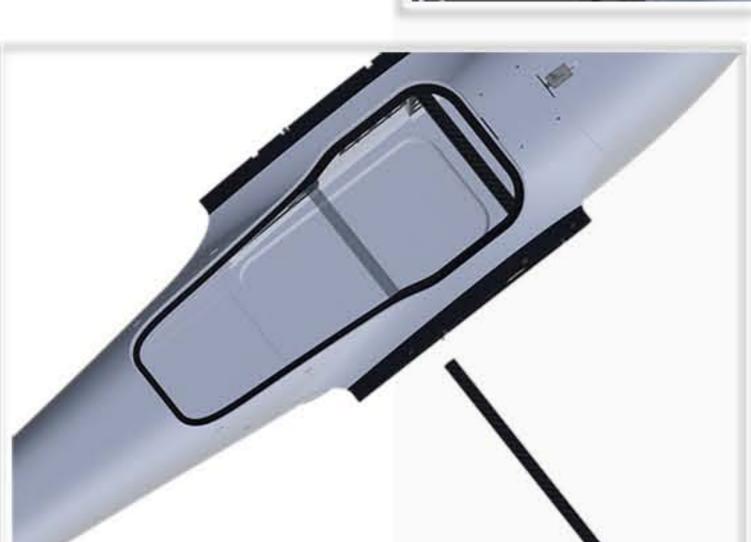
Load Cabin



Load cabin size: 280×160×110mm

A7R / A7R2, five-lens half-frame tilt camera can be placed in the main cabin





The auxiliary carbon tube adopts a toolless quick-release design. After disassembly, it can open the main and auxiliary cabin. It can be equipped with a five-lens full-frame tilt camera or a 1.5kg lightweight lidar

Flight control Cabin



The open platform design of the flight control cabin facilitates the installation of open source /commercial flight control installation

Cooperating with the center board can make full use of the space layout, greatly optimizing the line sequence and direction

The double-sided round holes ensure the accurate height measurement of the flight control barometer and also facilitate the installation and use of safety switches





Cooperate with the flight control protective cover to prevent foreign matter from falling, beautiful and dustproof

RTK/GPS/Parachute Cabin



The RTK / PPK antenna position is reserved at the rear of the flight control cabin, and with the RTK / PPK module, it can improve the POS data accuracy

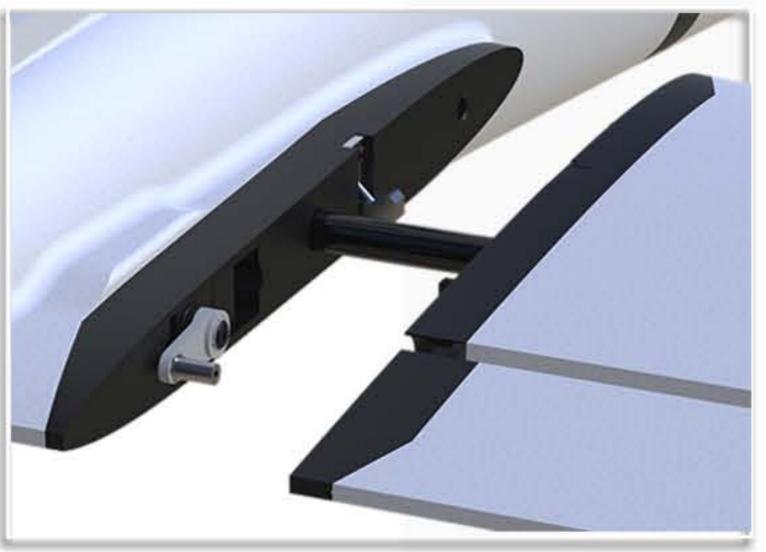
The GPS module is located at the rear of the fuselage, with a size of 69 × 63 × 18mm, which can accommodate flight control GPS and compass modules. The electromagnetic environment is clean





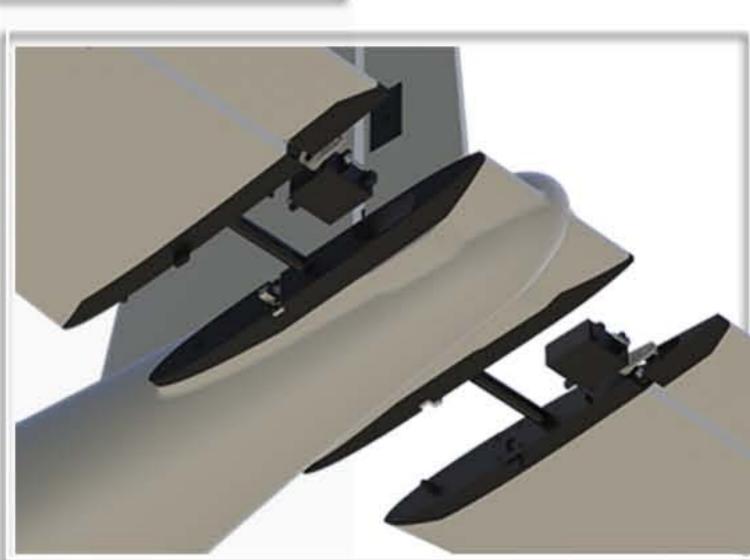
The size of the parachute cabin is 172 × 113 × 52mm, which can easily place 6-8kg parachute

Horizontal Tail



The horizontal tail adopts a tool-less quick-release structure, which is automatically locked when it is pushed and pulled out immediately when pressed

The left and right horizontal tails are designed with independent control of dual servo. Even if one side fails, the aircraft can return, which improves the safety of the aircraft



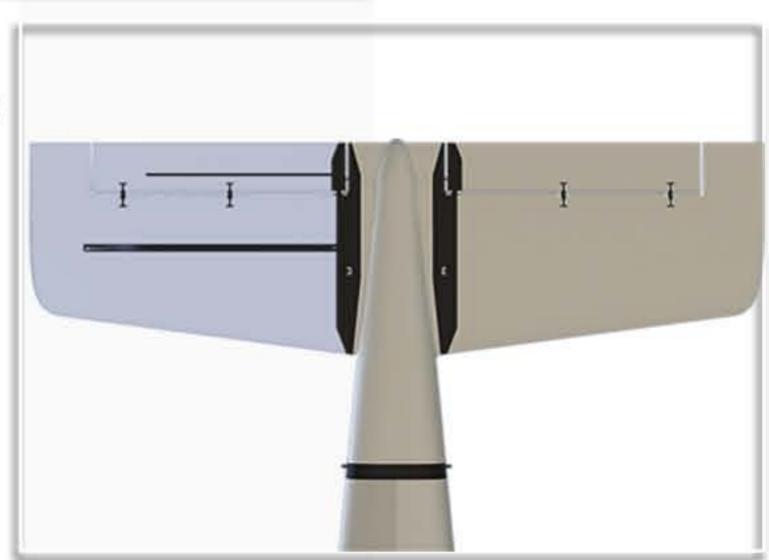


Horizontal tail servos do not need to be buried in advance, which is convenient for servo maintenance

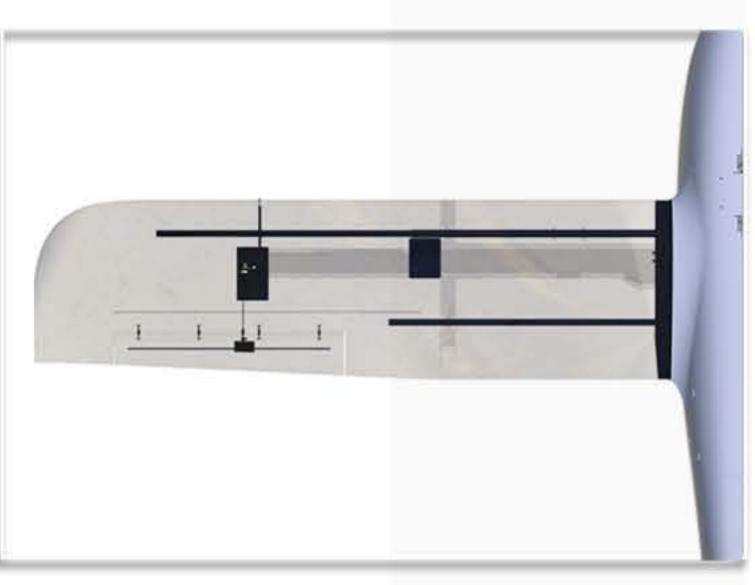
The rocker arm of servo adopts an embedded design, even if the rocker arm transmission column is loose, the rudder surface is also accurately executed

Carbon tubes are embedded in the rudder surface of the horizontal tail to increase the strength of the rudder surface

Four hinges connect the rudder surface, reduce the rotation resistance and increase the accuracy of rudder surface execution



Wing



φ12×1000mm Outer covering φ14×560mm Main carbon tube φ12×600mm Auxiliary carbon tube Ensure the overall rigidity of the wing.

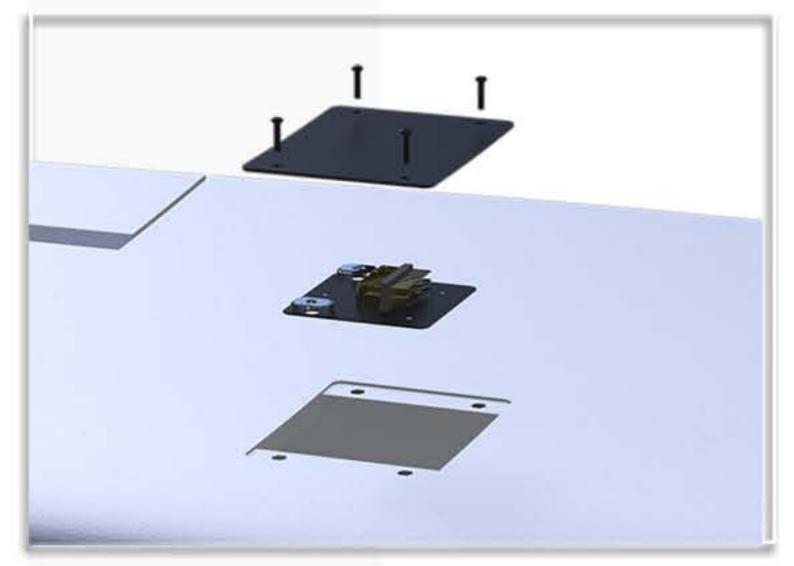
The wing and fuselage with the embedded box structure enhance the contortion resistance of the wing

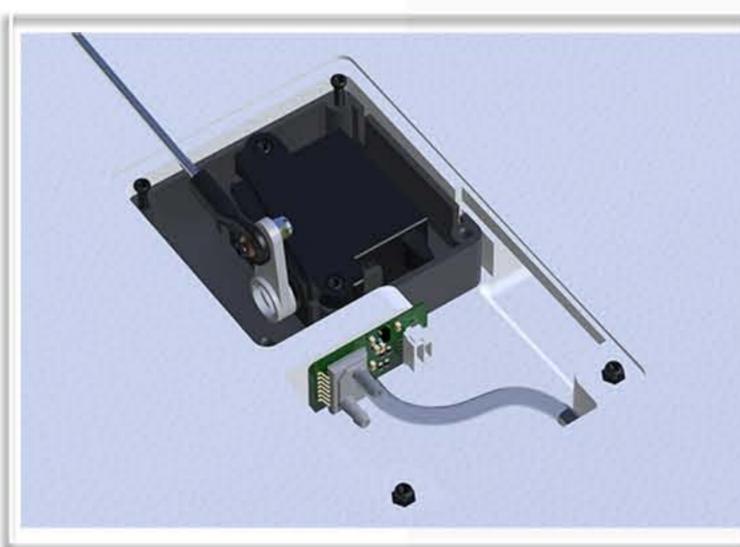




Dual connector can realize signal line redundancy, improve system stability, reduce wiring difficulty, and is compatible with 4 + 2 layout

The wing wiring cabin facilitates the installation of power signal cables. With the wiring board, the wing power system can be quickly disassembled and assembled

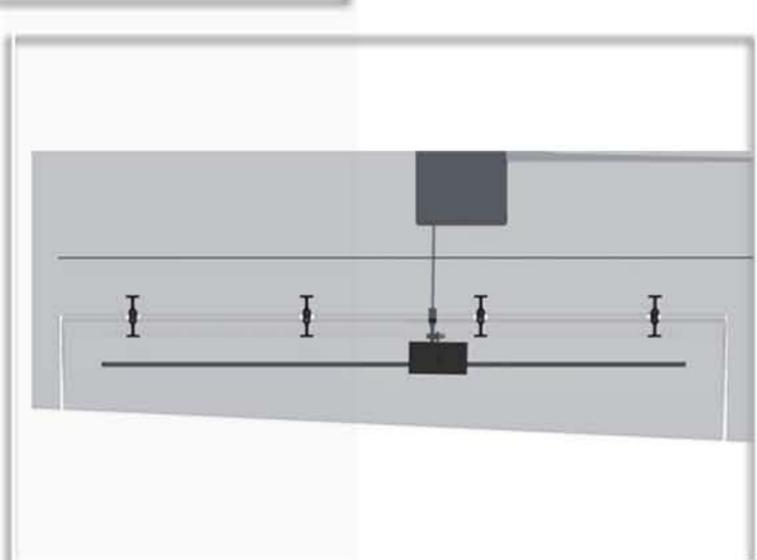


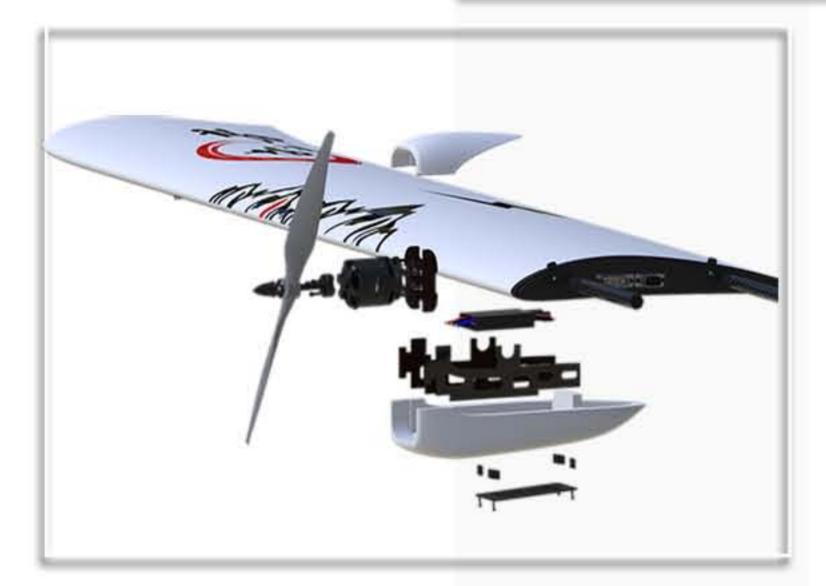


The aileron servo cabin not only facilitates replacing servo, but also can be equipped with an airspeed meter module to improve the airspeed detection accuracy

Embedded carbon tubes on the Aileron rudder surface increase the strength of rudder surface, increase the rudder angle fixing plate, and increase the rudder surface response speed

Four hinges connect the rudder surface, reduce the rotation resistance and increase the accuracy of



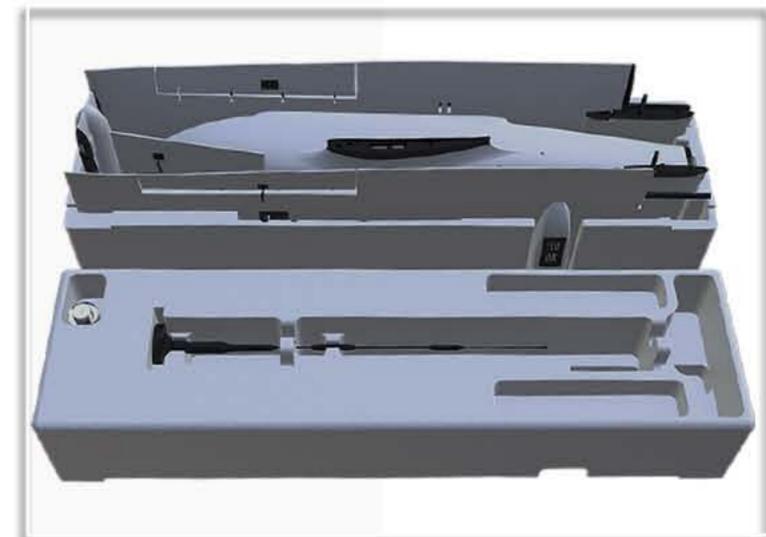


Double forward-pull motor, embedded reinforced board connects the wing carbon tube and the motor frame to ensure the strength and rigidity of the motor frame

Customized Transport Box



The transport box is made of high-expansion EPS foam, which has light specific gravity, impact resistance and good shock resistance, and is suitable for long-distance transportation

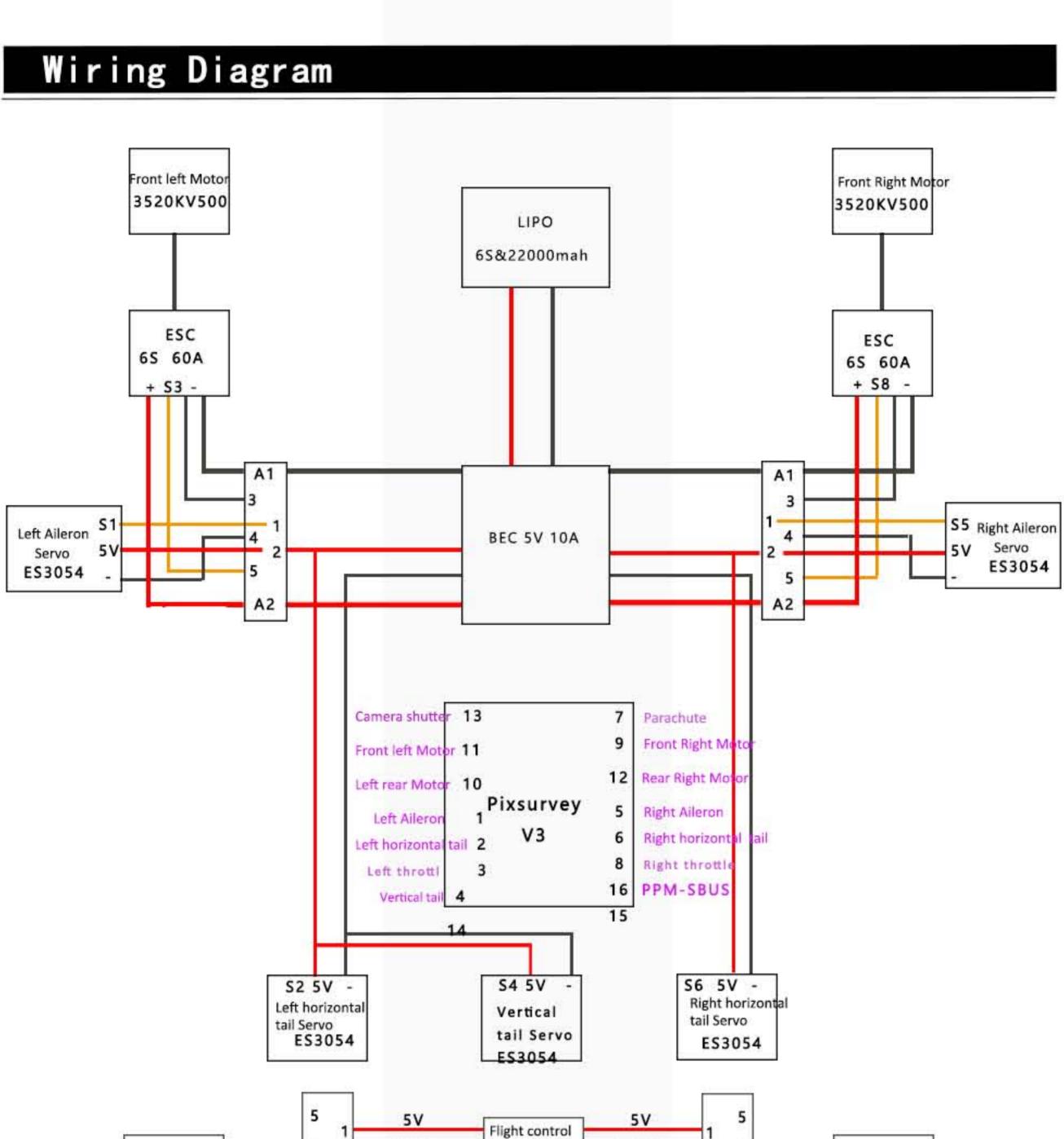


Technical Support





We have complete user manuals which can be downloaded in our website, and welcome to join our QQ group, aerial survey enthusiasts and technical support are waiting for you here!



SCL2

SDA2

GND

7

8

Airspeed detector

12C1

Configuration List of Spare Parts

SCL1

SDA1

GND

12C1

12C2

6

8

9

Airspeed detector

12C1

Туре	Model	KIT	PNP
Aircraft	Left Wing	1	1
	Right Wing	1	1
	Fuselage	1	1
	Fuselage Fittings	1	1
	Vertical Tail	1	1
	Horizontal Tail	1	1
	Small Components Packet	1	1
	Foam Packing Box	1	1
	Carton	1	1
Power System	Customize 3520 kv500 Motor		2
	APC1510 Propeller CW&CCW		2
	60A Brushless ESC		2
	EMAX ES3054 Servo		5
	EMAX Parachute Servo ES08MD		1
	Customize 6S UBEC 6V10A		1

Disclaimer

fatigue or mental discomfort

Makeflyeasy aerial survey series products are sensitive items, and the manufacturer does not bear any responsibility for the consequences of direct or indirect derivative accidental injury caused by any reason, and it is forbidden to use in military

any reason, and it is forbidden to use in military

Please keep the aircraft out of the reach of children. Make sure that the aircraft is far away from crowds and dangerous objects when flying. Do not carry out any aircraft operation while drinking,

Specifications

Other

14+y

No

Video Capture

Recommend Age

Aerial Photography

Resolution			
Indoor/Outdoor Use	Outdoor	Camera Mount Type	Other
State of Assembly	Unassembled Kit	Controller Mode	MODE1,MODE2
Control Channels	7 Channels	Controller Battery	0
Remote Distance	0	Power Source	Electric
Remote Control	Yes	Package Includes	Original Box
Material	Metal,Plastic,Carbon Fiber,Foam	Features	Auto Return

Origin

Type

Operator Skill Level

Beginner

Mainland China

Airplane