

FPV WING-900 II



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TechOne Hobby

USER MANUAL

Warning: This aircraft is a hobby grade product,
only for people 14-year old or above.

Before operating this unit, please read these instructions completely.

EXAMINE YOUR KIT CAREFULLY!

Our model kits are subject to constant quality inspection through out the production process, and we sincerely hope that you are completely satisfied with the contents of your kit.

We would ask you to check all the parts before you start construction, referring to the Parts List, If you find any defective or missing parts contact your local dealer. Please dry fit and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will be difficult to extend to the good parts that are good before bluing to defective parts during assembly.

We are constantly working on improving our models, and for this reason we must reserve the right to change the kit contents in terms of shape or dimensions of parts, technology, materials and fittings, without prior notification.

SAFETY PRECAUTIONS

-Select your flight area carefully. Always choose an open space that is unobstructed from trees and buildings and away from crowded areas. Avoid flying in area's with roads, electric/telephone poles/wires and water near by within close proximity to full size air traffic.

-Do not fly this model in poor weather. High winds, low visibility, inclement temperatures, rain and storms are to be avoided.

-Never attempt to catch this model whilst in flight. Even a slow moving model can cause harm to yourself and/others and risks damage to the model.

-This model is recommended for children no younger than 14 years old. All children, no matter what age, should always be supervised by a capable and responsible adult when operating this model.

-Always unplug your model battery when not in use. Never leave the battery installed in the model.

-Remember to keep clear of the propeller at all times when your flight battery is connected.

-Before flying, always turn on your transmitter first then plug your flight battery into the model.

-After flying, always unplug your flight battery first then turn off your radio transmitter.

-Exercise caution when charging your batteries and follow in full your battery manufacturers safety guideline when doing so.

WARNING!

This is a sophisticated hobby product and is NOT a toy, it must always be operated with caution, common sense and some basic mechanical ability. This manual provides instructions as the assembly, safe operation and maintenance of this hobby product.

It is highly recommended that you follow and read fully the instructions and warnings stated in this manual. Errors and carelessness in building and flying the model can result in serious personal injury and damage to property.

Since we, as manufacturers, have no control over the construction, maintenance and operation of our products, we are obliged to take this opportunity to point out these hazards and to emphasise your personal responsibility.

Interview

FPV WING 900 II is a upgrade version based on FPV WING I, which continuing the design style and flight characteristics of FPV WING 900 I. We improved the upgrade FPV Wing 900 II according to the market data feedbacks of FPV WING I accordingly. However, the material, strength, performance and humanization of FPV WING 900 II have been greatly improved, we realized it to be a competitive FPV wing with fast speed, flexible, and easy to remove.

Key Features

Item no: 0708002

1. Adopt the technology of hot cutting shaping, it improved the rigidity and torsion resistance of the wing, solve the tremor problem in high speed and crude flying of first generation, and ensure the strength and good handling even in high speed. The surface of new material is smoother than the surface of EPP material, it will decrease the resistance and improve the speed when flying.
2. Compare with EPP material, the printing color of new material is brighter and more gorgeous.
3. The connection of wing and carbon fuselage was fixed with magnet and rubber band, so it buffers the strong crash even in crude landing, and prevent the break of the wing and fuselage.
4. The compact fuselage design, improves the reasonable allocation of fuselage space, which can install the F3&F4 flight control, and we add the installed hole of image transmission antenna.
5. Open lid design for your convenience, which use only one screw to fix the upper plate
6. Isolate the power line from carbon plate with protective ring for protection, avoid the short circuit.
7. Improve the installation way of camera, It can support to mount a variety of equipments.

Specifications

✈ 37.8 in/960mm
✈ 12.4 in/315mm
⚖ 660-720g (with battery)
⚙ T MOTOR F80 KV2500
✂ Lumenier 5*5*3R

📦 11g*2pcs
🔋 F45Amp
🎮 4/more channel
🔋 4S 1500-2200 MAH Lipo

Take off mode: by hand

Recommended Configurations:

Camera: RunCam, Foxeer Arrow, FOXEER

Image transmission: FX 200MW-600MW

Do not fly under below conditions

Wind Strong enough to rustle the trees
A street with many trees or lamps
Area close to high voltage wires
Area with high density population

Note for Storage

Please disconnect the lipo packs when finished flying
Do not press or crush the airplane when storing
The best way to store is to hang the airplane to keep the control surface rigid

Mounted Equipment:

HawKeye Firefly Q6, RunCam HD 1080P, gopro 3-5

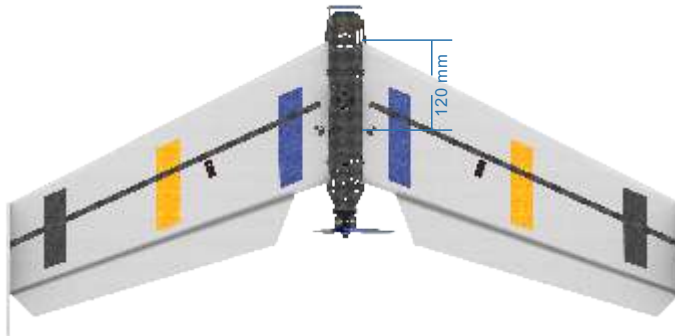
Flight control: F4 or F3

Cautions for flying

Large gyms, front lawns and parks are excellent areas for flying. Make sure your flying is permitted and within the appointed safety area by local authorities.
The more windless, the better!

Setting:

⚠️CGPosition: 120-125mm from the leading edge of the wing



Parts included in the packing



- | | | | |
|------------------------|-------|----------------------------------|-------|
| 1.Wing | 1 pc | 8.Magic tape | 1 pc |
| 2.Fuselage | 1 pc | 9.Hasp | 2pcs |
| 3.Wing Fence | 2 pcs | 10.3M Double sided adhesive tape | 5pcs |
| 4.Servo | 2pcs | 11.Fiber tape | 1 pc |
| 5.Stainless latch pipe | 2pcs | 12.rubber band | 12pcs |
| 6.Camera holder | 1 pc | | |
| 7.Propeller | 1 pc | | |

Steps of ASSEMBLY

1.Servo installation, the bonding of the servo horn and fixed plate



2.The connection of the servo and control surface, use the cardboard to locate the angle of the control surface and fix with screw.



3.Insert the servo wire into the pre-cut slot of the wing, then lead the servo wire into the outlet



4.Wing fence bonding



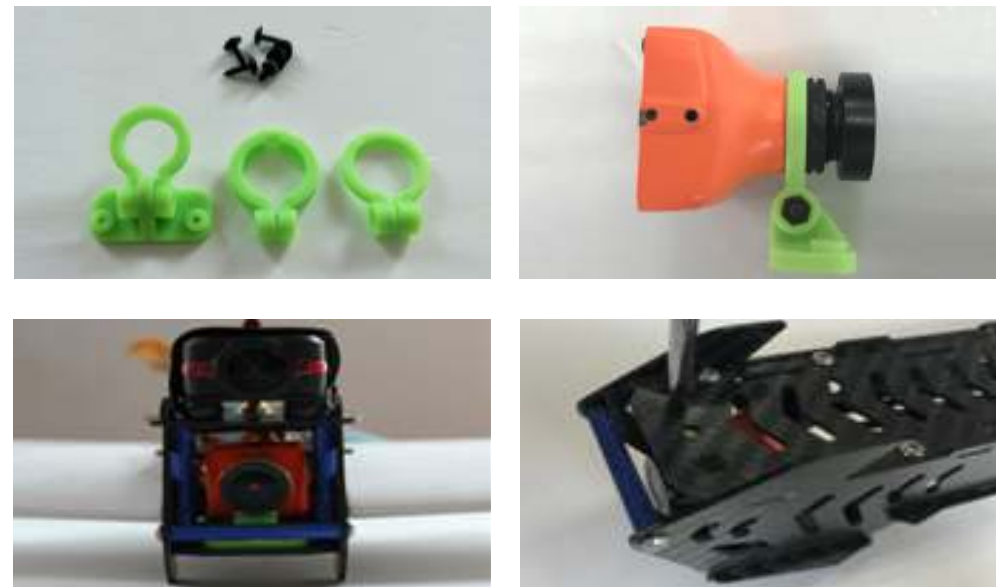
5.Connect the fuselage and wing with two pieces of stainless latch pipe, and fix with rubber band.



6.The placement area picture of Equipments as below



7.The installation of camera and camera holder



8.The installation of the image transmission and antenna



9.The installation of flight control and receiver



10.The installation of mounted equipment



Important Remarks

Please confirm the CG, thrust angle and angle of the control surface in your first flight. This is a reference configuration for high-speed flight when you enjoy the plane, which focus on the flight condition in high speed.

The plane can be corresponding to different trimming position of control surface at different speeds when in low speed and gliding flight, The trimming deflection of control surface should be bigger at low speed (trailing edge is more upward), The required trimming deflection of control surface is less at high speed (trailing edge is less upward)

The actual center of gravity, thrust line, the trimming deflection of control surfaces shall be operated according to the personal flying habits.

- 1.Please confirm the CG position before the flight, adjust the standard position of the battery forward or backward to achieve proper balance.
- 2.Please confirm the angle of the control surface, Please use the cardboard we provided to locate the angle of the control surface after power on, and tighten the steel with screw.
- 3.Please check the motor rotation direction after power on and before the flight, and then install the propeller carefully.
- 4.Please check if the direction of control surface is right, the flexing angle of control surface should not be too large, and it should adjust the flexing angle to $\pm 10\text{mm}$, you can set the EXP on remote control if you think it's too flexible

Safety

Safety is the first rule for any kind of flying. Third party insurance should be considered as a basic essential. If you join a model club they usually have an insurance scheme as part of the membership fee.

It is your personal responsibility to ensure you have adequate insurance. Make it your priority to keep your models and radio control system in perfect order at all times. Check the correct charging procedure for the batteries you are using. Make sure of all sensible safety systems and precautions which are advised for your system.

Always fly with a responsible attitude. Please don't fly your models dangerously, it is not wise to fly near people or over their heads. Be SMART, fly SAFE. Always fly in such a way that you do not endanger yourself or others.

Bear in mind that even the best RC system in the world is subject to outside interference. No matter how many years of accident free flying you have under your belt, things can go wrong at any time and in a matter of seconds. We hope you have many hours of pleasure building and flying your new model.