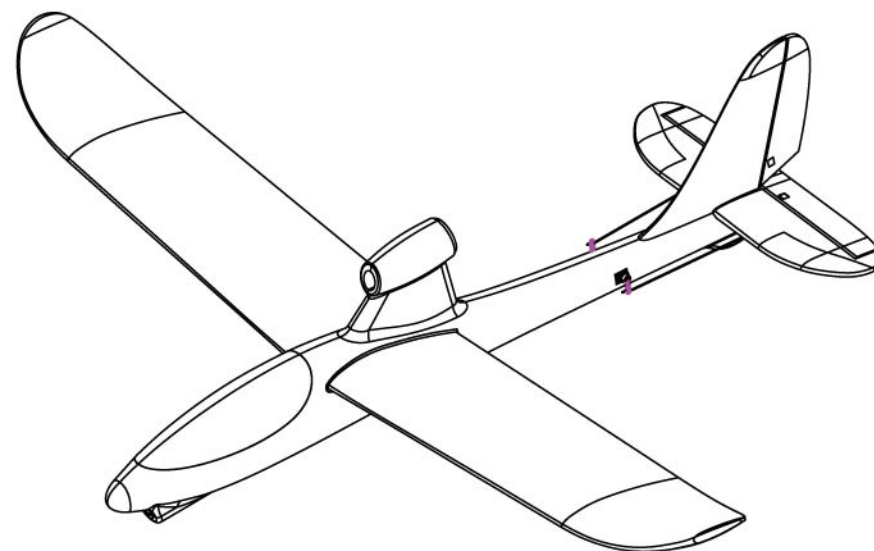


INSTRUCTION MANUAL

FPV AIRPLANE

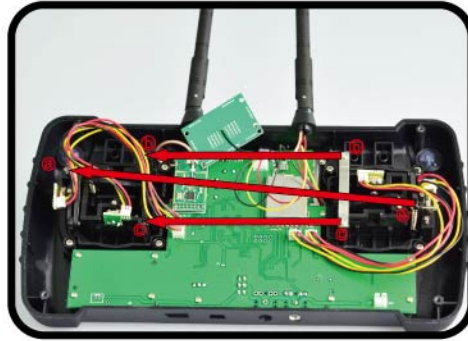


- video recording
- 3 Axis gyro autopilot system
- GPS return module

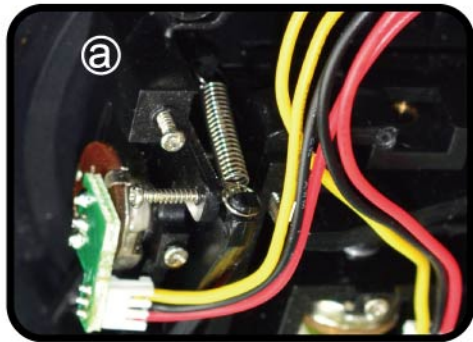
6.MODE1 AND MODE2 REVERSE SETTING



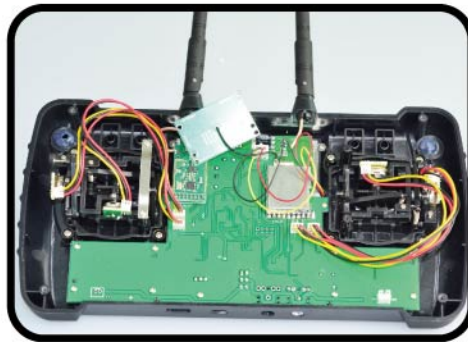
6.1.Open the cover of Transmitter by unscrewing the 4 screws as picture shows



6.2.Unscrew a,b,c screws and move screw b,c and the spring to another side and fix it with screws, please test the stick if smooth or not.



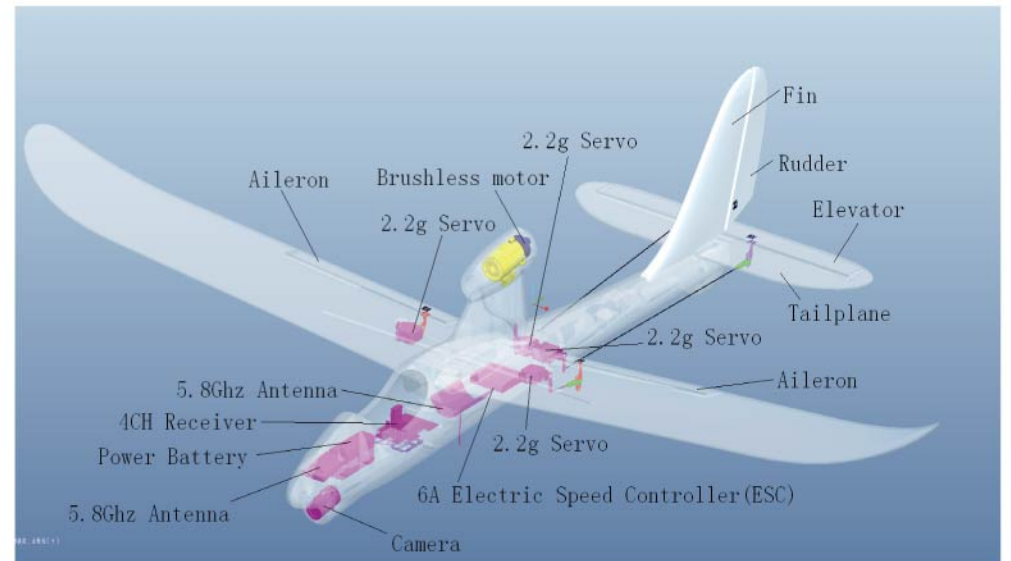
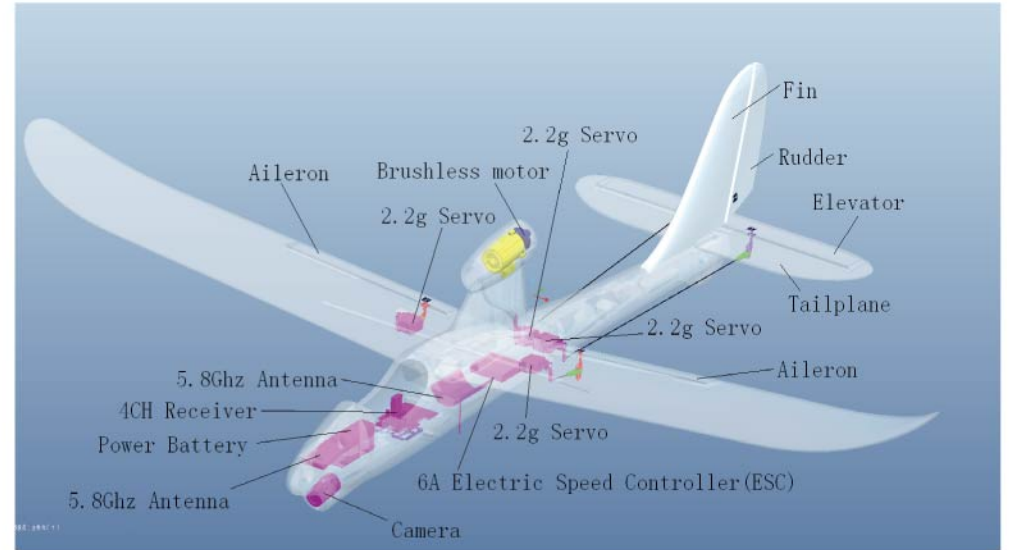
6.3.Important.
Lift the arm and insert the screw a from left side.



6.4.Finished

6.5
Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Stick mode by up/down key, shake the move sticker from up to down by 6 times, the Mode 2 will change to Mode 1 automatically, Press EXT key to confirm and exit, Power on again then it works.

5805	HUBSAN	7.7V
Setreverse	X	
Setensitive	X	
Planetype	Helicopter	
Expertmode	Yes	
Stickmode	Mode2	



1. Assembly Chart.

The airplane already pre-assembled almost 90% in factory and Little to do before flight. Please refer to the following assembly steps if you need to check or repair your aeroplane.



1. At the tailplane evenly coated with adhesive white glue



2. The tailplane bonding to the body firmly



3. At the bottom of the fin evenly coated with white glue



4. Bonding the fin to the body firmly



5. Adjust the fin and tailplane in vertical 90 degree



6. Screwing the chuck onto the Servo rod



Insert the plug into the power jack



Return the holder back to the compartment



Fasten the screw

4 Li-Po Battery Charging

4.1 The helicopter is equipped with a LiPo battery:

7.4V 2 Cell 650mAh x 1 unit (Fixed Pitch System)



4.2 Connect battery to balance charger and wall charger, The two led lights is red whilst charging and turns green when charging is finished.

4.3. Please refer to 2.2. Safety Advisory Notice

Always partially charge your LiPo battery before storage. LiPo batteries retain a charge over a reasonable period; It is not normally necessary to recharge stored LiPo batteries unless stored for periods longer than 3-6 months.

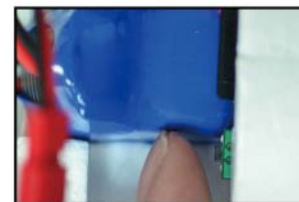
If your LiPo battery has been over-discharged, it will not be possible to recharge it again.

5 Video Recording

5.1 Insert the SD card



5.2 Push down the button, then the video starts recording

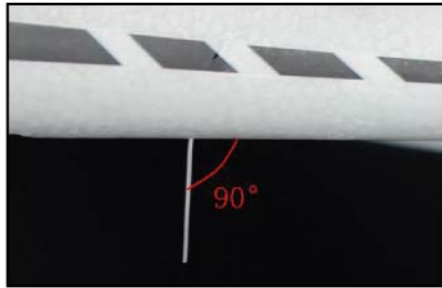


5.3 Video recording time begins to calculate while pressing the button mentioned above



3. 5.8Ghz Technical Tips.

3.3.1 Keep the FPV 5.8Ghz antenna straight downward as possible as you can to ensure the live video more clear and lower their interference from others, please see the picture shows.



3.3.2. Live video distance is around 300-400 meters, Please keep your transmitter antenna point to the Airplane as possible as you can so that you can have more clear and continuing live video.



4.1 Battery Mounting

Notice:

- >Do not mix old and new batteries
- >Do not mix different types of batteries
- >Do not charge non-rechargeable battery.



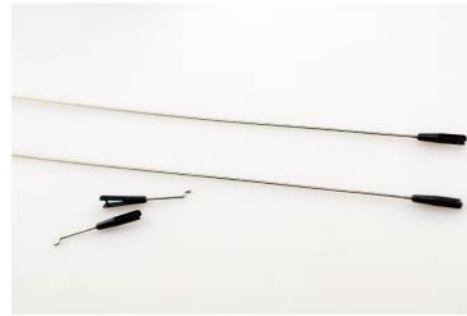
Open the cover



Take out the holder



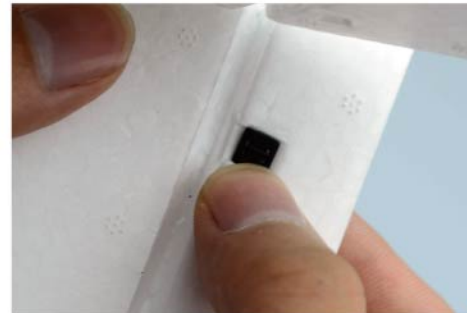
According to the correct polarities, install 8 x AA battery



7. Prepare 2 short servo rods and 4 long server rods



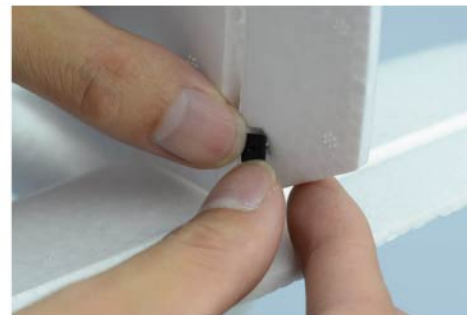
8. Insert the servo angle to the Elevator



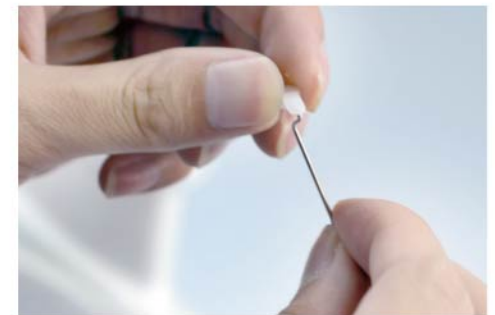
9. Fixing the servo angle with plastic panel



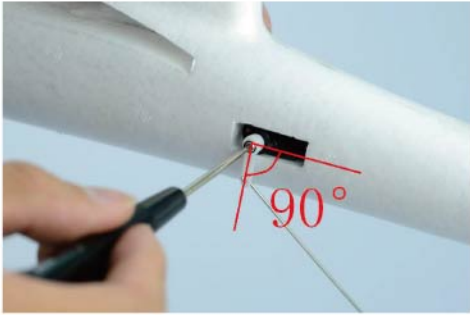
10. Insert the server angle to the Rudder



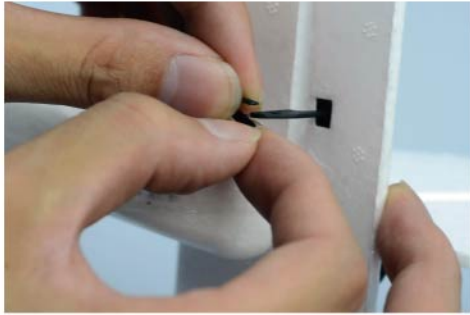
11.. Fixing the servo angle with plastic panel



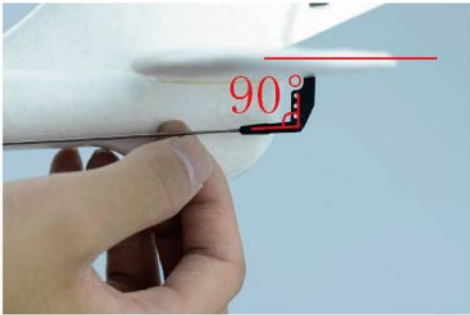
12. Insert the servo rod to the servo arm



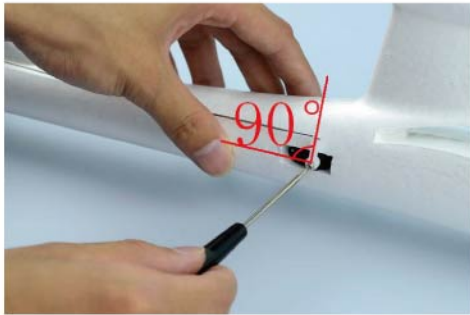
13. Screw the servo arm onto the Elevator servo, keep the servo arm in vertical as picture shows



14. Connect the servo rod to the Elevator servo angle



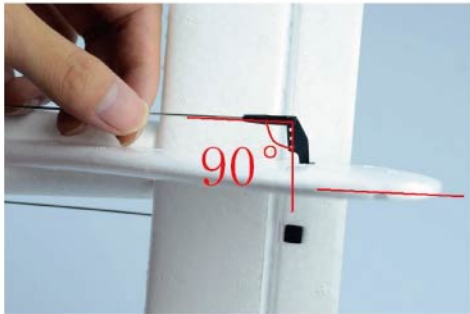
15. Adjust the servo rod and servo angle in vertical



16. Screw the servo arm onto the Rudder servo, keep the servo arm in vertical as picture shows



17. Connect the servo rod to the Rudder servo angle



18. Adjust the servo rod and servo angle in vertical

2.3 SENSITIVITY SET UP

2.3.1 RUDDER SENSITIVITY SET UP- NOR MODE

Hold down ENT key for 1 second to enter setting status. Enter set sensitive status by up/down key, Press RUDDER TRIM KEY to idea sensitivity and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	X	
Set sensitive	-	
Elevator	40	
Aileron	50	
Rudder	50	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.3.2. ELEV SENSIVITY SET UP- NOR MODE

Hold down ENT key for 1 second to enter setting status. Enter set sensitive status by up/down key, Press ELEVATOR TRIM KEY to idea sensitivity and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	X	
Set sensitive	-	
Elevator	40	
Aileron	50	
Rudder	50	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.3.3 AILE SENSIVITY SET UP- NOR MODE

Hold down ENT key for 1 second to enter setting status. Enter set sensitive status by up/down key, Press AILERON TRIM KEY to idea sensitivity and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	X	
Set sensitive	-	
Elevator	40	
Aileron	50	
Rudder	50	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.2.4. RUDD REVERSE SET UP

Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Rudder by up/down key , Press ENT key to choose reverse and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	-	
Elevator	Normal	
Aileron	Reverse	
Throttle	Normal	
→ Rudder	Normal	
Set sensitive	X	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.2.5. EXPERT MODE REVERSE SET UP

Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Exper mode by up/down key , Press ENT key to choose reverse and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	X	
Set sensitive	X	
Plane type	Helicopter	
→ Expert mode	Yes	
Stick mode	Mode 2	

2.2.6 Plane/Helicopter MODE REVERSE SET UP

Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Plane type or Helicopter type by up/down key , Press ENT key to choose reverse and then hold EXT key for 2 seconds to confirm and exit.

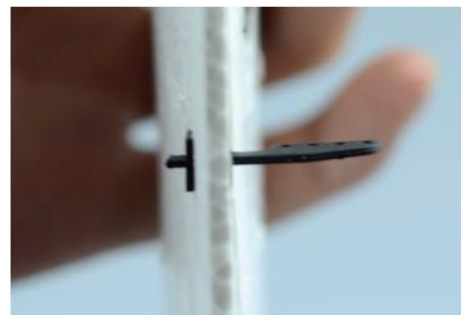
5805	HUBSAN	7.7V
Set reverse	X	
Set sensitive	X	
→ Plane type	Helicopter	
Expert mode	Yes	
Stick mode	Mode 2	



19. Insert the server angle to the Aileron



20. . Fixing the servo angle with plastic panel



21. Left Aileron and Right Aileron same installation metod



22. Insert the Aileron rods into servo arms



23. Screw the servo arm onto the Aileron servo, keep the servo arm in vertical as picture shows



24. The backside of servo coated with white glue



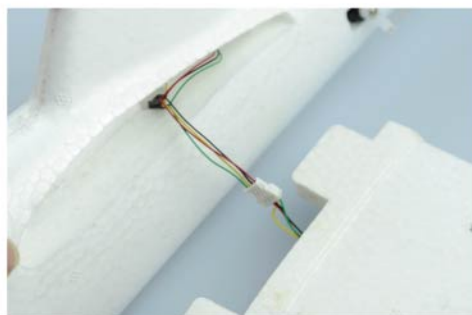
25. Bonding the Aileron servo to the housing firmly



26. Connect the servo rod to the Aileron servo angle



27. Adjust the servo rod and servo angel in vertical



28. Connect Aileron servo electrical wire



29. Connect another Aileron servo electrical wire



30. Connect two wings, ensure the bolt to be inserted into the strengthening tube.

2.2 Reversing channel setup

2.2.1.ELEV REVERSE SET UP

Hold down ENT key for 1 second to enter setting status, Press ENT key to enter reverse setting status, Press ENT key to choose reverse, and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	-	
→ Elevator	Normal	
Aileron	Reverse	
Throttle	Normal	
Rudder	Normal	
Set sensitive	X	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.2.2. AILE REVERSE SET UP

Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Aileron by up/down key, Press ENT key to choose reverse and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	-	
Elevator	Normal	
→ Aileron	Reverse	
Throttle	Normal	
Rudder	Normal	
Set sensitive	X	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

2.2.3. THRO REVERSE SET UP

Hold down ENT key for 1 second to enter setting status. Press ENT key to enter reverse setting status. Move arrow to Throttle by up/down key, Press ENT key to choose reverse and then hold EXT key for 2 seconds to confirm and exit.

5805	HUBSAN	7.7V
Set reverse	-	
Elevator	Normal	
Aileron	Reverse	
→ Throttle	Normal	
Rudder	Normal	
Set sensitive	X	
Plane type	Helicopter	
Expert mode	No	
Stick mode	Mode 2	

Input Key Function

S/N	Identification	Function
1	Throttle/Rudder Stick	Forward and backward movement of the stick makes the helicopter ascend and descend respectively. Left and right movement of the stick will rotate the helicopter's fuselage left/right respectively.
2	Elevator/Aileron Stick	Forward and backward movement of the stick makes the helicopter move forward and backward respectively. Left and right movement of the stick makes the helicopter drift sideways left/right respectively.
(1)	Throttle /Aileron stick	Forward and backward movement of the stick makes the helicopter ascend and descend respectively. Left and right movement of the stick makes the helicopter drift sideways left/right respectively
(2)	Elevator/Rudder Stick	Forward and backward movement of the stick makes the helicopter move forward and backward respectively. Left and right movement of the stick will rotate the helicopter's fuselage left/right respectively.
3	Aileron Trim	Aileron trim subsidiary adjusts left and right drift.
4	Elevator Trim	Elevator trim subsidiary adjusts forward and backward movement.
5	Rudder Trim	Rudder trim subsidiary adjusts left and right rotation.
6	Throttle Trim	Throttle trim subsidiary adjusts ascent and descent.
7	Power SW	Pushing up switches on the power transmitter, pulling down switches it off.
8	Neck Strap Eyelet	For the attachment of a neck strap which eases the tension of your hands from holding the transmitter.
9	Antenna	Transmits wireless signal
10	CHG (Optional)	Can be used to charge the rechargeable battery pack (excluded) inside the transmitter (at charge current 50mA, Voltage ≤ 12V.) Notice: It is dangerous to charge a non-rechargeable battery pack via this charge port. It is dangerous to use the accompanied wall adapter as a DC power supply.
11	DSC (Optional)	Connects to the data cable of computer simulator.



31. Ensure the wings to be mounted properly



32. Install the propeller to the motor axis, please check the positive and negative on propeller.



33. Press the propeller into the motor shaft(O ring on need)



34. Paste the stickers



35. Fuselage Sticker



36. Tailplane sticker



37. Install the battery



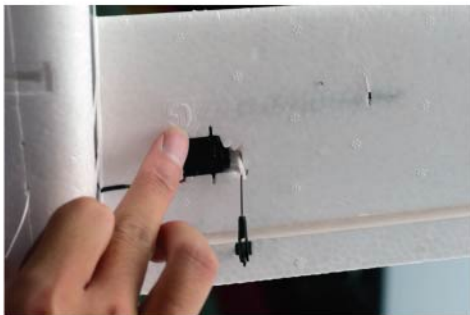
38. Minimize the throttle and power on.



39. Connect battery after the transmitter red LED flashing



40. Return the canopy



50. The center of gravity of the airplane should be in the range of 'G', which marked under the wing.

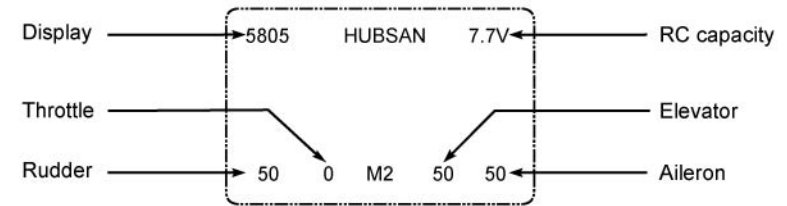


51. Moving the position of the battery forward or backward to ensure the center of gravity on 'G' point by your finger testing

2. 2.4Ghz/ 5.8Ghz Transmitter

2.1 Identification and functional keys

Main Menu



TRANSMITTER



(MODE 1)



(MODE 2)