

## WFT06X-A Function Introduction (6 channels)

This item has functions of both airplane and helicopter, and emphasizes more on airplane.

**The main functions are as follows:**

- (1) At airplane state, channel 1, 2, 4, 6 is a switch for dual rate (D/R) variable: from  $\pm 100\%$  to  $\pm 125\%$ .
- (2) At airplane state, channel 1 & 6 mixture function: Flaperon.
- (3) At airplane state, channel 4 & 2 mixture function: V-tail.
- (4) At airplane state, channel 1 & 2 mixture function: Triangle wing(ELEVON).
- (5) At helicopter state, channel 3 mixture function is to channel 4 & channel 6.
- (6) At helicopter state, channel 3 mixture function is only to channel 6.
- (7) Channel 1, 2, 3, 4, 6 reverse switch.
- (8) Normal mode can be used in car model and boat model.
- (9) Sound-and-light hint notification for low power: when the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. And when it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.

## WFT06X-B Function Introduction (4 channels)

This item is a popular model with 4 channels. It is mainly used for airplane or helicopter with mixture functions.

**The main functions are as follows:**

- (1) Channel 1, 2, 4 power adjusted function.
- (2) Standard 4 channel functions.
- (3) At airplane state, channel 1 & 2 mixture function: Triangle wing (ELEVON).
- (4) Channel 1, 2, 3, 4 reverse switch.
- (5) Sound-and-light hint notification for low power: when the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. And when it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.

## WFT06X-C Function Introduction (6 channels)

This model has functions of CCPM helicopter and airplane, but emphasizes on helicopter.

**The main functions are as follows:**

- (1) Pitch Zero Trim (PZT).
- (2) Pitch Length Trim (PLT).
- (3) Be used for CCPM helicopter, airplane, car, boat. Standard 6 channels output.
- (4) Compatible with simulation softwares.
- (5) Channel 1, 2, 3, 4, 6 reverse switch.
- (6) CCPM helicopter pitch reverse.
- (7) CCPM state, aileron reverse switch.
- (8) CCPM state, elevator reverse switch.
- (9) Normal flying and 3D flying. The transmitter will alarms if it is turned on in a Idle-up state, and no output.
- (10) Dual rate.
- (11) Throttle hold.
- (12) Gyro sensitivity adjust.
- (13) Idle-up throttle adjust.
- (14) Sound-and-light indicator for low power: When the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. When it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.

## WFT06X Radio Control System



# INSTRUCTION v01

Use in model Aircraft/Helicopter



**WFT06X-A:** 6 channels airplane, mix function, D/R, HDE helicopter.

**WFT06X-B:** 4 channels airplane, mix function, D/R, HDE helicopter.

**WFT06X-C:** 6 channels CCPM helicopter, airplane.

### Notice

- ▲Please read this instruction before you use the product.
- ▲Please put away the instruction.

## Digital Proportional R/C System

## Catalogue

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Thanks for choosing **WFLY** 天地飞® products



WFT06X -A









WFT06X -B



WFT06X -C

## Special Symbol Instruction

To use the product safely, please pay attention to the instructions as follows.  
Please pay special attention to the symbol as follow:

-  **Dangers:** If you use it without proper operation, it is possible to hurt you seriously or may even cause death.
-  **Warnings:** If you use it without proper operation, it may make you or others to hurt badly or may even cause death, and it may cause slight hurt or damage to things.
-  **Notices:** If you use it without proper operation, it may cause you to hurt slightly or damage things, but it won't hurt you seriously normally.
-  Children under 14 must be accompanied and instructed by adults!
-  Turn on the transmitter first, then the receiver. When turning off the system, turn off the receiver first, then the transmitter.
-  Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Code Matching

#### A. Receiver

Press Set to start the receiver or press Set and hold. The orange LED flashes, indicating the receiver waits for the code matching signal.

#### B. Transmitter

Press and hold Set of the module then start the transmitter. Press Set again to enter the code matching function. The orange LED of the receiver lights up. Press Power and hold until the orange LED flashes, indicating the receiver enters the code matching status.

C. Code matching successful If the code matches successfully, the green LED of the transmitter lights up. The LED of receiver is off.

### Fail Safe Setting

#### A. Power on receiver.

B. Press Set then power on the transmitter. Hold Set for 2 seconds. The green LED flashes indicating the transmitter enters the code matching status.

C. The green LED of the receiver flashes, the output data of transmitter is the data of the fail safe.

D. The red LED of the receiver lights when it is in the fail safe status.

### Flying Notice(warning)

 **Forbiddance!**  **Obligation!**  **Warning**



※ You mustn't play it at night, in the rainy day, or in the day with strong wind, which will damage the device or plane.



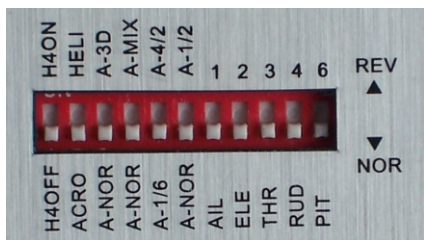
### Checking



※ Please check whether every servo works properly and any disturbing signals from the outside environment or not before you play it.

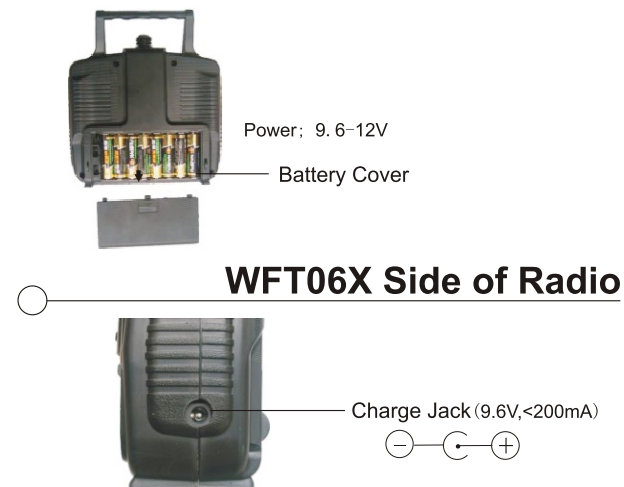
# Parts Description & Operation Instruction

## WFT06X-A Transmitter Features (Front)



1. AIL: Aileron (Channel 1)
2. ELE: Elevator (Channel 2)
3. THR: Throttle (Channel 3)
4. RUD: Rudder (Channel 4)
5. GYR: Landing Gear/Gyro (Channel 5)
6. PIT: Flaperon /Screw-pitch (Channel 6)

## WFT06X Transmitter Features (Rear)



## WFT06X Side of Radio

## Underside of Transmitter



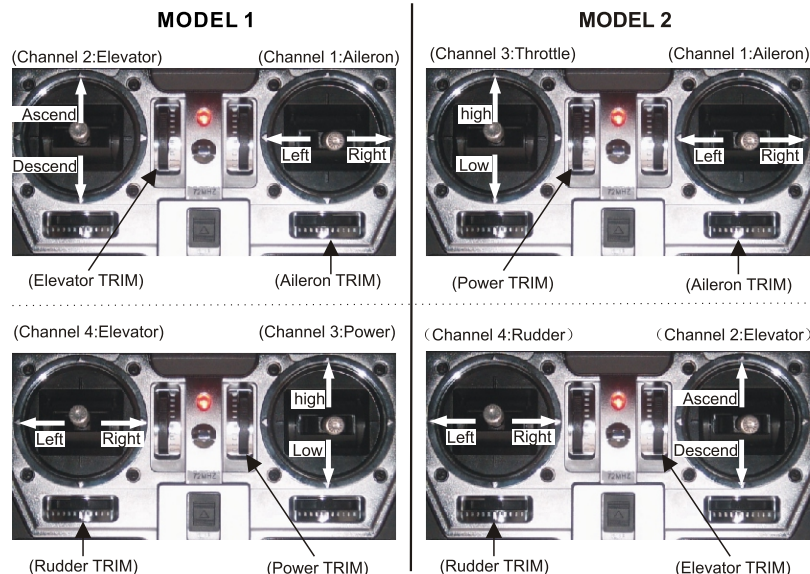
## Coupling Ways of WFR06S 6CH Receiver

### WFR06S Six Channels Receiver

1. AIL: Aileron (Channel 1)-----
  2. ELE: Elevator (Channel 2)-----
  3. THR: Throttle (Channel 3)-----
  4. RUD: Rudder (Channel 4)-----
  5. GYR: Landing Gear/Gyro (Channel 5)
  6. PIT: Flaperon/Pitch (Channel 6)-----
- Power input: 4. 8-6v



# Operation of Transmitter Functions of Control Rods



### Channel 1: Aileron Action

Control the right-and-left lean of the aircraft. To level the slantwise aircraft, you must make the control rod act in reverse direction. Otherwise, it will make the aircraft overturn .

### Channel 2: Elevator Action

Control the aerocraft to descend or ascend. Pulling the control rod down will drive up the head, and the aeroplane will ascend. Boosting it up will make the head downhill, and the aeroplane will descend.

### Channel 3: Throttle Operation

Control the power. Pulling the control rod down will minish down the power group, and boosting the control rod up will increase the power group.

### Channel 4: Rudder Action

Control the swerve of the aerocraft. Turning the control rod to left will make the head of the aircraft turn left, and turning it to right will make the head turn right.

### Channel 5: Landing Gear/Gyro Action

This channel is for switch variable. It is a switch to control landing gear when used for airplane state, but it will be a switch for gyroscope when used for helicopter.

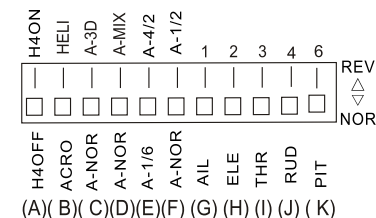
### Channel 6: Screw-pitch/Flaperon Action

The angle adjusting of the flaperon is for the airplane state, and the adjusting of the main screw-pitch is for helicopter state.

# WFT06X-A Function Introduction

This model has functions of both airplane and helicopter, and emphasizes more on airplane.

- (1) At airplane state, channel 1, 2, 4, 6 is a switch for dual rate(D/R) variable: from  $\pm 100\%$  to  $\pm 125\%$ .
- (2) At airplane state, channel 1 & 6 mixture function: Flaperon.
- (3) At airplane state, channel 4 & 2 mixture function: V-tail.
- (4) At airplane state, channel 1 & 2 mixture function: Triangle wing(ELEVON).
- (5) At helicopter state, channel 3 mixture function is to channel 4 & channel 6.
- (6) At helicopter state, channel 3 mixture function is only to channel 6.
- (7) Channel 1, 2, 3, 4, 6 reverse switch.
- (8) Normal mode can be used in car model and boat model.
- (9) Sound-and-light hint notification for low power: when the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. And when it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.



### Switch Function Instruction

- (A) At helicopter state, pulling A down to put off mixture function of channel 3 to channel 4, when pulling it up it will comeback the function. But the mixture function to channel 6 is stable, which is irrelevant with this switch.
- (B) Pulling B down is airplane state and pulling it up is helicopter state.
- (C) At airplane state, pulling 1, 2, 4, 6 down the dual rate is  $\pm 100\%$ ; when pulling them up, the dual rate will be  $\pm 125\%$ .
- (D) At airplane state, pulling D down make switches have no mixture function, but pulling it up will cause them have the function.
- (E) At airplane state, when D is pulled up, pulling E down cause channel 1 & 6 mixture function (Flaperon); pulling E up will cause channel 2 & 4 mixture function(V-TAIL) .
- (F) At airplane state, when D is pulled up, pulling F up it works as the mixture function of channel 1 & 2(Triangle wing ELEVON), and D function doesn' t work at that moment.
- (G) Channel 1 is reverse switch for aileron. Pulling G down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (H) Channel 2 is reverse switch for elevator. Pulling H down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (I) Channel 3 is reverse switch for power. Pulling I down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (J) Channel 4 is reverse switch for rudder. Pulling J down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (K) Channel 6 is reverse switch for screw-pitch/ flaperon .Pulling K down is to make it in normal mode, and pulling it up is to make it act in reverse.

## Mixture Functions of Helicopter

### Model with Ordinary Gyro:

when A and B switches are up, channel 3 will control the mixture function of channel 4 and 6. That is, when pushing channel 3 control rod, both the main rotor's distance and the tail rotor's distance will be enlarged. So if the rotor distance become nearer, you should only turn the reverse switch of the corresponding channel.

### Model with Special Functions Gyro:

Having the mixture functions of channel 4 will unlock the tail. So when this happens, you can pulling A down and pulling B up.

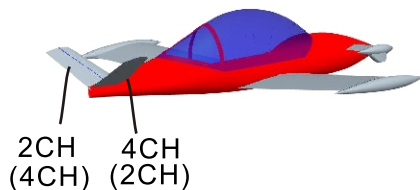
## Mixture Functions of Airplane's Flaperon



When B, E, F are down and D is up: the aileron uses two servos. If you turn the channel 6 switch, the left and right aileron can fluctuate at the same time. Pushing channel 1 rod to right-and-left direction can make the left and right aileron differential.

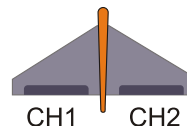
The left aileron is connected to CH6 and the right one is connected to CH1.

## Airplane's V-TAIL



When E, D are up and B, F are down: It is used in V-tail aircraft. CH2 elevator and CH4 rudder's mixture function will cause the aircraft to descend /ascend or swerve.

## Mixture Function for Triangle Airplane



When B, F are down and D, E are up, it is used for triangle airplanes. CH1 aileron and CH2 elevator are mixed together, which can make the aircraft turn up, turn down and turn around.

## WFT06X-B Function Introduction

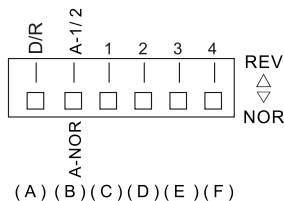
This model is a popular model with 4 channels. It is mainly used for airplane or helicopter with mixture functions.

### The main functions are as follows:

- (1) Channel 1, 2, 4 power adjusted functions.
- (2) Standard 4 channel functions.
- (3) At airplane state, channel 1 & 2 mixture function: Triangle wing (ELEVON).
- (4) Channel 1, 2, 3, 4 reverse switch.
- (5) Sound-and-light hint notification for low power: when the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. And when it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.

### Switch Function Instruction:

- (A) Turn up A, the movement of channel 1, 2, 4 is 100%, and turn it down is small movement.
- (B) Channel 1 & 2 mixture function: Triangle wing (ELEVON).
- (C) Channel 1 is reverse switch for aileron. Pulling it down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (D) Channel 2 is reverse switch for elevator. Pulling it down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (E) Channel 3 is reverse switch for power. Pulling it down is to make it in normal mode, and pulling it up is to make it act in reverse.
- (F) Channel 4 is reverse switch for rudder, pulling it down is to make it in normal mode, and pulling it up is to make it act in Reverse.



# WFT06X-C Function Introduction

This model has functions of CCPM helicopter and airplane, but emphasizes on helicopter.

The main functions are as follows:

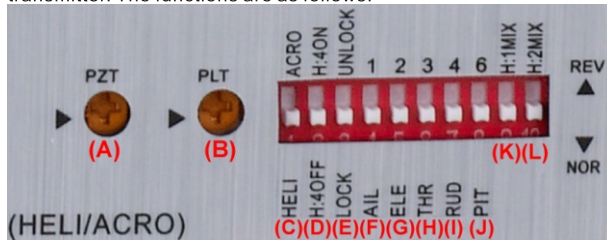
- (1) Pitch Zero Trim (PZT).
- (2) Pitch Length Trim (PLT).
- (3) Be used for CCPM helicopter, airplane, car, boat. Standard 6 channels output.
- (4) Compatible with simulation softwares.
- (5) Channel 1, 2, 3, 4, 6 reverse switch.
- (6) CCPM helicopter pitch reverse.
- (7) CCPM state, aileron reverse switch.
- (8) CCPM state, elevator reverse switch.
- (9) Normal flying and 3D flying. The transmitter will alarms if it is turned on in a Idle-up state, and no output.
- (10) Dual rate.
- (11) Throttle hold.
- (12) Gyro sensitivity adjust.
- (13) Idle-up throttle adjust.
- (14) Sound-and-light indicator for low power: When the battery voltage is below 8.8V, the power indicator light 1S/1S glitters and buzzes. When it is below 8.3V, the power indicator light 0.5S/1S glitters and buzzes at the same time.

## I. CCPM Helicopter Mode

1. Receiver output signals are as follows:

- Channel 1 Aileron
- Channel 2 Elevator
- Channel 3 Throttle
- Channel 4 Rudder
- Channel 5 Gyro sensitivity
- Channel 6 Pitch. Combined with channel 1, 2 for the CCPM pitch mix.

2. There are two potentiometers and several DIP switches on the transmitter. The functions are as follows:



- (A) Pitch Zero Trim (PZT)
- (B) Pitch Length Trim (PLT)
- (C) Helicopter and airplane interconverted switch. Put it up, it's airplane mode; pull it down, it's CCPM helicopter mode.
- (D) Channel 4 mix switch. Put it down, channel 3, 6 mix; pull it up, channel 3, 4, 6 mix.
- (E) Lock/Unlock switch. At Unlock state, Channel 5 Gyro sensitivity(N), PZT(A) and PLT(B) can be adjusted. When finish the adjustment, pull the switch down and lock all the memory. The radio can keep the memory even if power lost.
- (F) Channel 1 Aileron reverse switch.
- (G) Channel 2 Elevator reverse switch.
- (H) Channel 3 Throttle reverse switch.
- (I) Channel 4 Rudder reverse switch.
- (J) Channel 6 single output reverse switch.
- (K) CCPM, aileron reverse switch.
- (L) CCPM, elevator reverse switch.

\* CCPM opposite direction adjustment: operate Channel 1 Aileron (F), Channel 2 Elevator (G), Channel 6 (J) reverse switch at the same time.

3. The switches in the following pictures function as follows:



(M) IDLE-UP Flight mode switch. Pull it to NOR for normal flying (hovering or airline flying), pull it to IDLE for Stunt flight (3D flying).

(N) At Inverted mode state, this switch is for throttle stroke adjustment.

Put Lock/Unlock switch (E) to Unlock, at normal flying state, this switch is for Channel 5 Gyro sensitivity adjustment, you can lock this memory when you finish the adjustment.

(O) Dual Rate switch (Channel 1, 2, 4). Put it up 100% rudder angle, put it down 70% rudder angle.

(P) Throttle hold switch. Pull it, channel 3 stops outputting singles and other channels still work well. This switch can be used for adjusting helicopter on land and can be also used in flameout landing.

## 4. CCPM Helicopter Adjustment

\* The following operation should be strictly acted orderly

- ① Put (E) up, in unlock state.
  - ② (M) in Idle-up, largest power, adjust (B) and make the pitch +9 to +11 degree. Then, smallest power adjust (A), make the pitch -9 to -11 degree.
  - ③ (M) in Normal, smallest power, adjust (A), and make the pitch -2 degree.
  - ④ Adjust (N) and change channel 5, to make the value of gyro sensitivity attain proper state.
  - ⑤ Put (E) down, in lock state.
  - ⑥ When (E) be in Inverted state, you can adjust (N) to change throttle itinerary at any time.
- \* When in or finish the adjustment, the throttle pitch does not work. Please power off the transmitter, and put A and B into the center position. Then power on the transmitter and set again refer to the measure mentioned.

## II. Airplane Mode

\* Airplane mode can also be used in car and boat model. Compatible with simulation software.

In airplane mode, helicopter memory won't be changed.

1. Receiver output signals are as follows:

- Channel 1 Aileron
- Channel 2 Elevator
- Channel 3 Throttle
- Channel 4 Rudder
- Channel 5 undercarriage
- Channel 6 Flap

2. The DIP switches' functions are as follows:

- |  |                                      |
|--|--------------------------------------|
| (A) No use.                            | (I) Channel 4 Rudder reverse switch. |
| (B) No use.                            | (J) Channel 6 flap reverse switch.   |
| (C) Helicopter and airplane switch.    | (K) No use.                          |
| (D) No use.                            | (L) No use.                          |
| (E) No use.                            | (M) No use.                          |
| (F) Channel 1 Aileron reverse switch.  | (N) Channel 6 flap adjustment.       |
| (G) Channel 2 Elevator reverse switch. | (O) Channel 5 landing adjustment.    |
| (H) Channel 3 Throttle reverse switch. |                                      |

