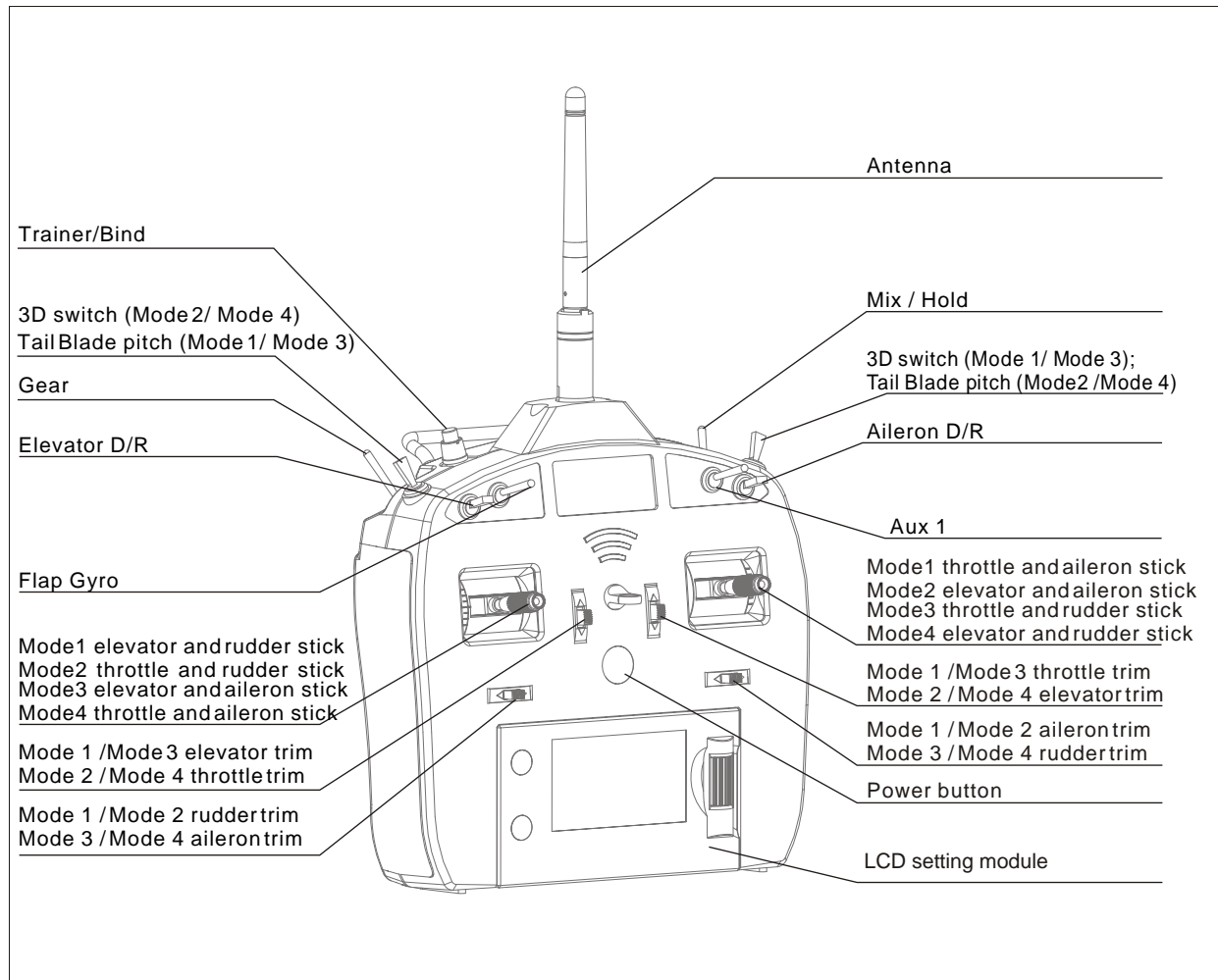


GWY005451 6TL Transmitter

1. Transmitter components introduction



2. Transmitter standard and parameters

- 1)The frequency bandwidth: ISM 2.4GHz (2.400~2.480GHz)
- 2)number of controller is 6CH
- 3)The operation current is not greater than 150 mA (include LCD screen);The charging current is not greater than 500mA.
- 4)The battery is Li-Polymer battery (3.7V), the volume is 780 mAh

3. Product Features

- 1)The transmitter is using 2.4G ISM frequency channel, allow auto detection while using the transmitter.
- 2)The transmitter receive or distribute the frequency by ID identify technology, protect external jamming, provide stable and reliable during the operation.
- 3)The LCD setting module is dividable, user-friendly and setting the trim easily.
- 4)Interchanging interface easily (Change Mode + Menu setting)
- 5)Trainer connector is using wireless technology
- 6)The power button is using soft material to become the button, it is durable and change the connection defect while pushing the roller power button
- 7)The transmitter is based on the ergonomic technology to design the transmitter

4. Interchanging position of throttle and elevator control

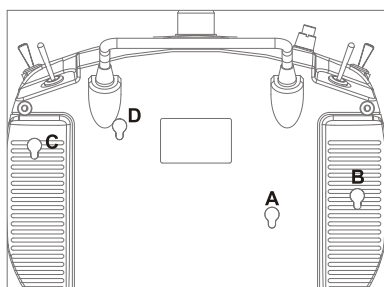
- (1) Structural adjustment: Before the adjustment, please take out the four rubber pistons (A, B, C and D) on the back of the transmitter, as shown in the figure

Left Throttle to Right Throttle (Mode 2/Mode 4 to Mode 1/ Mode 3)

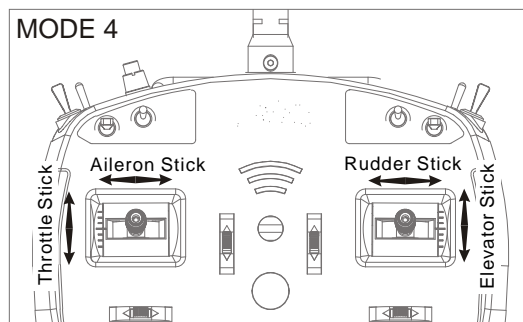
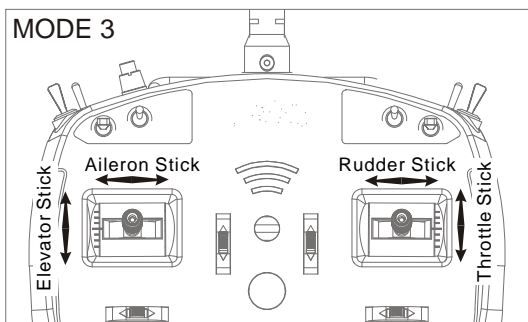
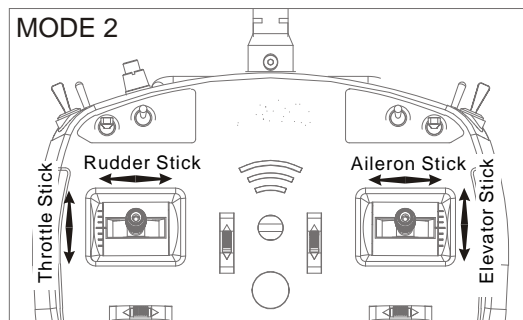
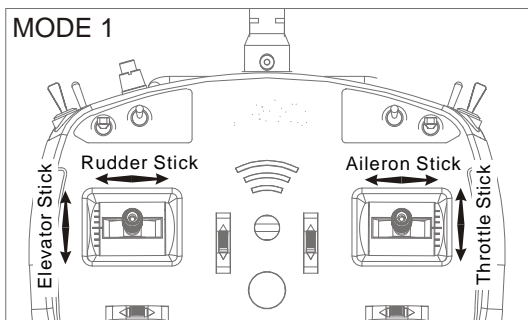
- 1) Use a cross-drive screw driver to loosen Screw A. Keep loosening until the stick can move up and down without friction
- 2) Tighten Screw B. Keep tightening until the stick can move up and down with rebounds
- 3) Loosen Screw C. Keep loosening until the stick can move up and down without rebounds
- 4) Tighten Screw D. Keep tightening until the stick can move up and down with friction

Right Throttle to Left Throttle (Mode 1/Mode 3 to Mode 2/ Mode 4)

- 1) Use a cross-drive screw driver to loosen Screw D. Keep loosening until the stick can move up and down without friction.
- 2) Tighten Screw C. Keep tightening until the stick can move up and down with rebounds.
- 3) Loosen Screw B. Keep loosening until the stick can move up and down without rebounds
- 4) Tighten Screw A. Keep tightening until the stick can move up and down with friction



Back view of Transmitter



- (2) Set Control Mode, change of control mode

There are 4 Control Modes: Mode 1, Mode 2, Mode 3 and Mode 4, as shown in the above

- (3) Changing control mode

- 1) Push and hold both the R/A Trim (Rubber/Aileron Trim) leftward at the same time then press the Bind button. The transmitter will emit a series of beep sound. That indicates the transmitter has entered the control mode setting.

- 2) Select your desired control mode by pushing the T/E Trim (Throttle/Elevator Trim) as instructions and picture shown below:
 Push the right T/E Trim upward for MODE 1, one beep sound will be emitted.
 Push the right T/E Trim downward for MODE 2, two beeps will be emitted.
 Push the left T/E Trim upward for MODE 3, three beeps will be emitted.
 Push the left T/E Trim downward for MODE 4, four beeps will be emitted.
- 3) After the desired control mode is selected, push the left R/A Trim (Rubber/Aileron Trim) to the right as shown below in figure 3, corresponded beeping sound as when setting the control mode will be emitted (1 beep for MODE 1, 2 beeps for MODE 2 etc.), the transmitter will then save the selected control mode and turns off automatically. The selected control mode will be in use the next time when the transmitter is turned on.

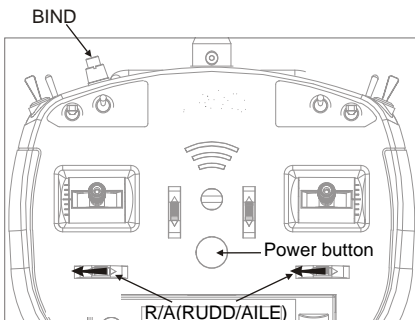


Figure 1

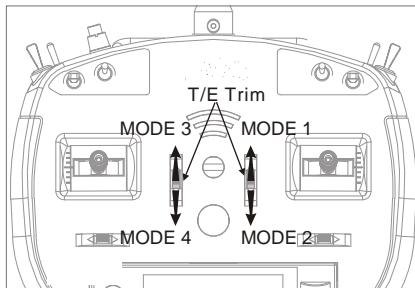


Figure 2

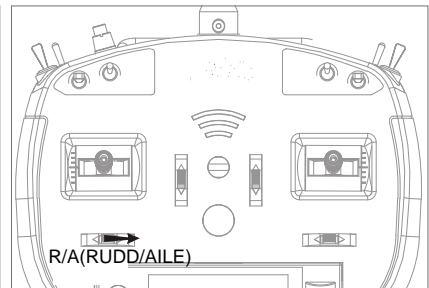
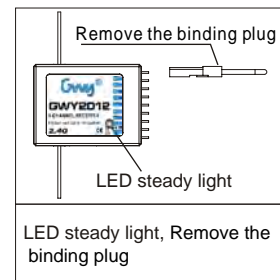
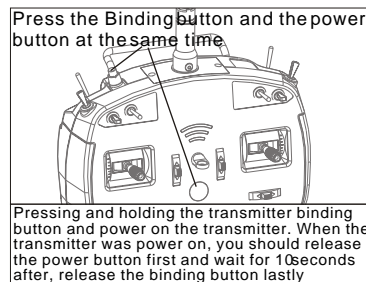
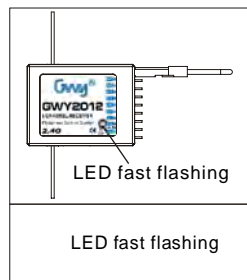
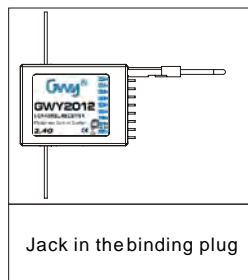


Figure 3

5.Normal instruction

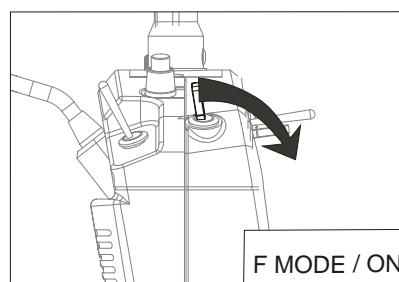
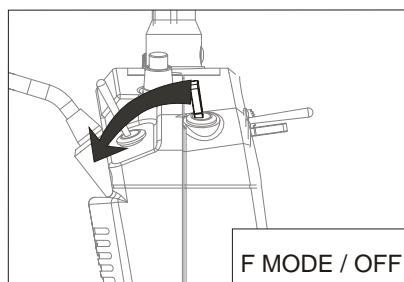
- 1) Turn on transmitter procedure: Press and hold the power button 3~5 seconds, the buzzer will have a "beep" noise, the LCD icon will light on and solid. This signal means the transmitter is turned on successfully.
- 2) Binding procedure: Insert the binding plug in the Channel 9 (Power supply interface) receiver / 3 axis gyro and connect the electricity, the LED will fast flashing. Pressing and holding the transmitter binding button and power on the transmitter. When the transmitter was power on, you should release the power button first and wait for 10 seconds after, release the binding button lastly. If the above procedure is success, the LED will solid after 5 seconds and the binding process is completed, remove the binding plug. Otherwise, please follow the above procedure to bind it again. (Note: To operate the binding procedures, please make sure the brushless motor and the ESC is not connected.)



- 3) Turn off transmitter procedure: Press and hold the power button 3~5 seconds, the buzzer will have a "beep" noise, the LCD icon will light off and solid. This signal means the transmitter is turned off successfully.
- 4) Trainer wireless binding: Open the transmitter (Master transmitter), plug in the wireless connection device through the 30 Pin connector, after that press and hold the binding button, it will auto detect the wireless connection device and connect with the transmitter in 20 seconds. If success, the LED wireless connection device will solid.
- 5) Charging procedure: Plug in the charging connection wire to the transmitter via the 30 Pin charging connector, and then plug the USB connector in the 5V charger.

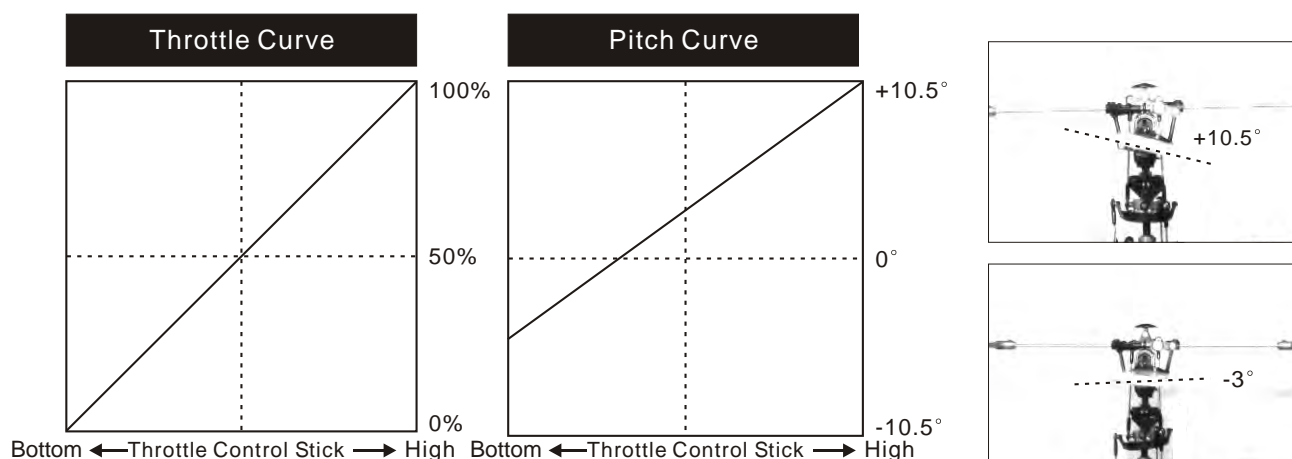
6. Normal and aerobatics mode

GWY 6T channel helicopter is installed an aerobatics curve in the transmitter, switch off the transmitter, the pitch and throttle is automatically exchange into suitable for aerobatics mode used. The picture below: (Left throttle).



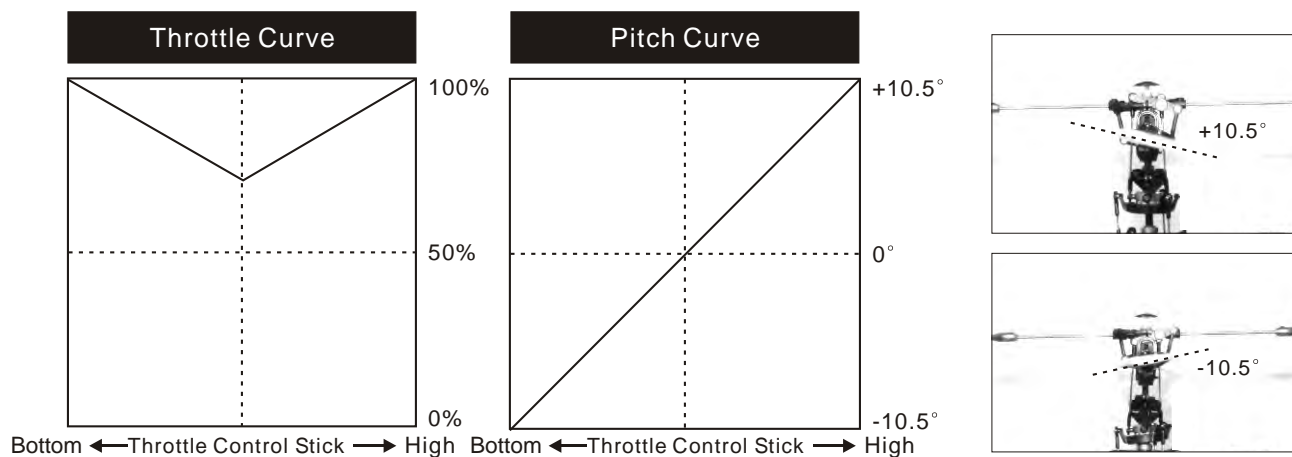
Normal

When the transmitter is closed the aerobatics mode, the throttle curve is linear from 0% to 100%. The helicopter under this mode, it will change the setting depends on throttle curve from 0% to 100% and the pitch curve from -3 degrees to +10.5 degrees (factory default setting). This is the preferred flight mode for general hovering and basic flight. (The user can use the GWY setting module or connection wire to connect with the computer to reset the pitch and throttle curve)

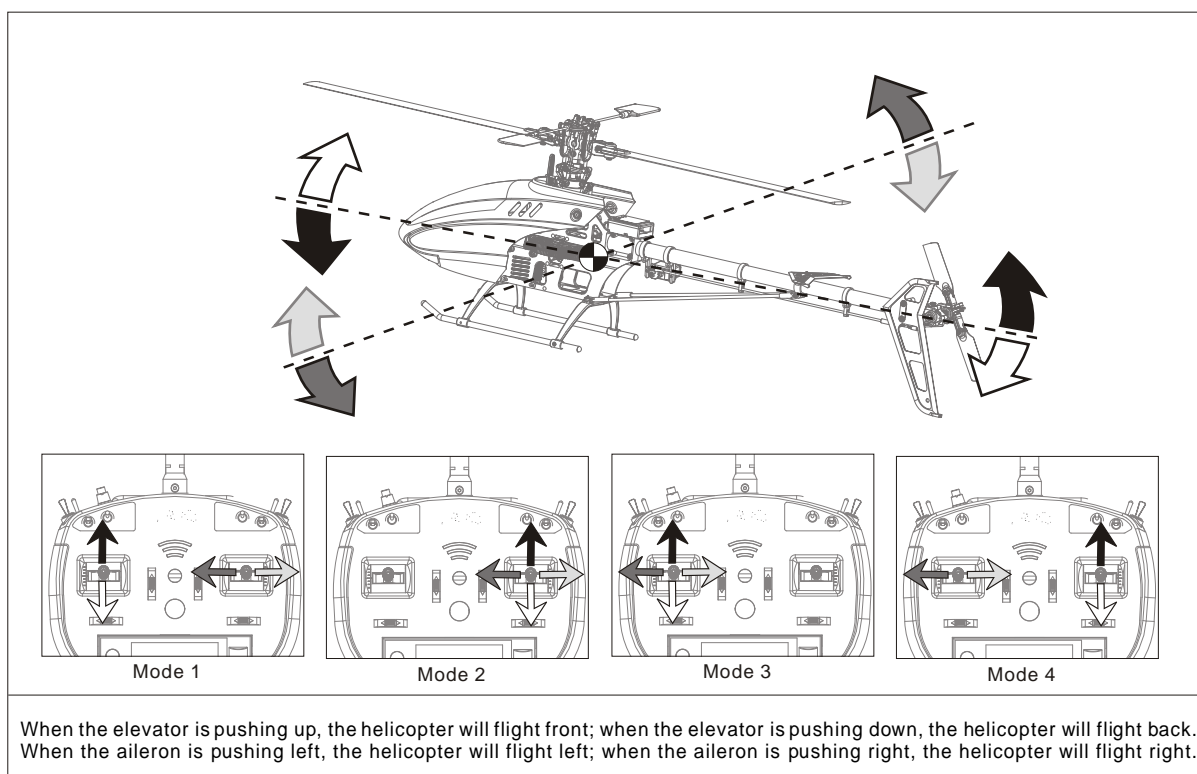
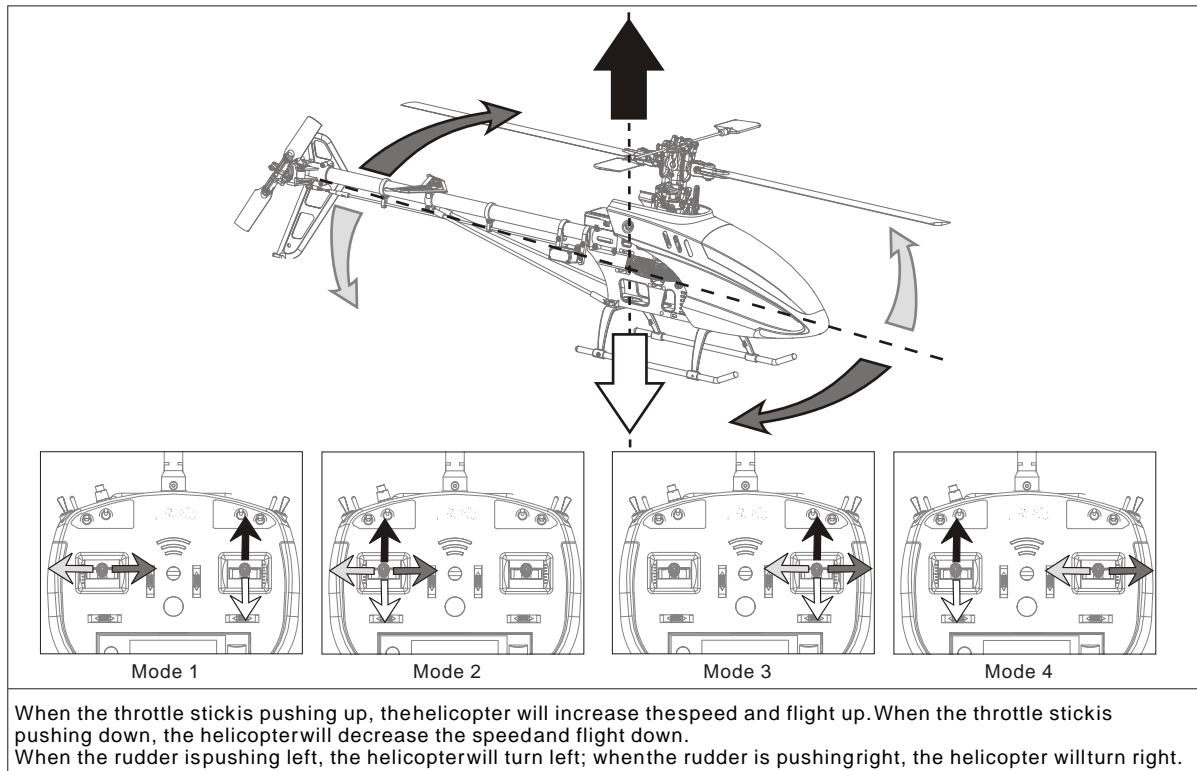


Aerobatics

When the transmitter is opened the aerobatics mode, the helicopter is under the 3D aerobatics mode. In this mode, the throttle curve is remain at 100% and becomes a "V" shape status. If the throttle curve change from 0% to 100%, the pitch curve change from -10.5 degrees to +10.5 degrees (factory default setting). This is the preferred flight mode for aerobatics flight. (The user can use the GWY setting module or connection wire to connect with the computer to reset the pitch and throttle curve)



7.The transmitter control instruction



8. Trouble Shooting

Trouble Description	Possible reason	Solution
Can not turn on the transmitter	Missing battery or voltage	Changing battery and re-charging the battery
Turn on the transmitter, Buzzer have noise but can not turn on the transmitter.	1) Throttle position has not push down to the lowest position. 2) Other functions can not go back to default "0" position.	1) Please check the throttle stick position, push down the stick at the lowest position. 2) Please check all the functions button or switch, and adjust the value back to "0" position
Can not connect with the receiver normally	1) When turn on the transmitter, user press the binding button carelessly 2) Is there any metal or other material surround with you 3) The helicopter is not charging normally	1) Please press the binding button to re-binding the transmitter 2) Please stay in a flat area without heavy or many metals surrounded area 3) Please check the receiver battery power and connector is connected correctly
Remote control area has not achieve the standard	1) Is the receiver antenna mix with the other device wire together? 2) Is the receiver antenna loose or damage?	The receiver antenna must have a distance with other electronic wire (at least 20mm)
Remote control can not operate properly	1) Is it the helicopter type not correct? 2) Is it Servo not working properly? 3) Is there any strong frequency jammed, affecting the transmission quality?	1) Please make sure the transmitter setting is matching with the correct helicopter model 2) Please make sure the servo is working properly 3) Please make sure there is no any big frequency device in the area. It is include wireless router or frequency tower
Under the operation, LED is flashing unexpectedly, the Buzzer have noise continuously.	The battery power is very low (Lower than 20%) or connection error, occur the alarm.	Please check the battery stick tight, and then check the battery power. Charging the battery on time and replace the battery if necessary.

FCC ID: 2AAB6-HK0003

Item Number: GWY005451

Zonda Hobby Technologies Electronic Ltd

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the separation between the equipment and receiver.
- ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To comply with FCC's RF radiation exposure limits for general population/uncontrolled exposure, this device must be operated only in hands with a separation distance of at least 20 cm from its antenna to the body. In addition it must not be collocated or operating in conjunction with any other antenna or transmitter.



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS**

Hereby, ZONDA HOBBY TECHNOLOGIES ELECTRONIC LIMITED, declares that this GWY005451 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC