

### Warnings & Safety:

- This product is suitable for people over the ages of 14.
- Do not fly the drone near airports, trains, cars, people, electricity towers, rain, lightning or areas with strong winds.
- Check your surroundings before flying.
- Do not let the drone fly out of sight as you may lose and damage the drone.
- Ensure that no other products are using the same frequency as the drone to avoid interference.
- Only use the original USB charging cable as other cables may not match the correct charging specifications.
- Adult supervision is required when charging a rechargeable lithium battery.
- Do not expose the drone, remote or LCD goggles to heat or high temperatures to avoid damage.
- Do not remove the drone, remote or LCD goggles to water or liquids to avoid damage.
- Please remove the battery after use.
- Only clean the drone with a soft cloth and the drone should be disconnected from the charger while cleaning.

\* The chargers, wires, plugs, shells and other parts shall be checked regularly. If any damage is found, it shall be discontinued until it is repaired.  
 \* Only use original charger, charger is not toy.  
 \* Please clean the product with a clean and soft cloth. The drone should be disconnected from the charger before cleaning.  
 \* Adult supervision is required when charging a rechargeable battery.  
 \* Non-rechargeable battery is not rechargeable.  
 \* Do not short circuit, decompose, fall into the air or put into fire.  
 \* For the long time not operate product. Please remove the battery.  
 \* Do not seriously crash or drop the drone and remote controller.

### Box Contents:

- 1 x FPV Drone
- 1 x LCD Goggles
- 1 x Remote Control
- 2 x Rechargeable Batteries
- 1 x 3-Way Battery Charger
- 1 x USB Charging Cable
- 1 x 3.5mm to 3.5mm Cable (Head Chase Mode)
- 1 x Spare Blades
- 1 x Carry Case

### Features/Specifications:

**Features:**

- First Person View (FPV) LCD Goggles
- Live Drone Video Stream
- Video & Image Recording
- Head Chase Mode
- One Key Take-Off & Landing
- Altitude Hold
- Multiple Speed Modes
- 360° Flip
- Rechargeable

**Specifications:**

Frequency: 2.4GHz (Drone)  
5.8GHz (FPV Wi-Fi Transmission)

Remote Control Range: Up to 60m  
LCD Goggles: 3" O' Display  
Latency: <80ms  
Camera Resolution: 480p (640 x 480)  
microSD Capacity: Up to 32GB  
Play Time: Up to 6 Minutes  
Charging Time: Up to 50 Minutes

Batteries:  
Drone: 3.7V Li-po, 400mA (Included)  
LCD Goggles: 3.7V Li-ion, 1800mA (Included)  
Remote: 3.7V Li-ion, 800mA (Included)  
Weight: 35g  
Dimensions: 80(L) x 80(W) x 42(H)mm (Drone)

### Flying Conditions:

### Remote Control Diagram:

Short press to switch modes side flight and Speed level switch  
Long press to enter head chasing mode

### Remote Control Operation:

- Power on / off  
① After power on, long press the remote control switch, the remote control enters the working mode.  
② Press and hold the switch button, the buzzer sounds twice, the power indicator is off, and the remote controller enters the shutdown state.
- Unlock, lock  
In beginner mode, press the unlock button to idle the motor. Press again to stop the motor. Short press the button in flight, aircraft will slow down and lock. Before unlocking or locking, make sure that the throttle stick is in the zero position.
- Throttle control  
After unlocking, push the throttle to control the height of drone. The drone's altitude remains unchanged when it is in the neutral position.
- code reset  
Long press this button to exit and change the matching channel of the aircraft. When the remote controller is not turned off, long press the button to match another aircraft.
- Rotating flight  
Throttle joystick turn to left/right, the drone will left/right rotating fly.
- Forward/backward, Left/right  
Direction joystick turn to forward/backward/left/right, the drone will fly forward/backward/left/right.
- Trim function  
When the aircraft flight is deviating, press the trim button to adjust the flight attitude.
- Led light  
Short press the led switch button to change the 7 led colors.
- speed switch  
Short press the button, you can adjust the speed, there are 3 gears in total, the buzzer beeps once for the first gear, the speed is the smallest; the second sound is the second gear, the speed is the third gear, the maximum speed. Press again to switch to gear 1, and cycle switching.
- Short press to switch modes and long press to enter head chasing mode  
Short press to switch modes:  
There are 3 flight modes in total, the buzzer sounds once for beginner mode. Two beeps for attitude mode, three beeps for sport mode with maximum speed (default is beginner mode). Press again for beginner mode and cycle through the modes.  
Head body control: connect the audio cable to the remote control and VR glasses, then long press the button to enter the body control function  
Beginner mode: Altitude hold mode.  
Attitude mode: There is no altitude fixing function for the drone, the drone cannot automatically fix the altitude and hover, you need to manually adjust the throttle rocker and direction rocker to achieve it.  
Sport mode: In sport mode, there is no height fixing function, the user controls the drone using the rocker, when flying forward, backward, left or right, the aircraft will maintain the attitude after hitting the stick to fly automatically; at this time the ascent, descent and heading operations remain unchanged.

### Remote Control Charging:

1. Plug a section of the charging cable into the charging port of the remote control and the USB port into the charging socket, plug in the power supply and you can charge it.  
2. Plug the USB port of the charging cable into the USB port of the computer host, you can also finish charging.  
3. The indicator light is always on in red under charging status, and the light will automatically go out when the battery is recharged.

### Calibration:

**Step one**  
First, turn on the drone and transmitter. Point the tail of the drone at the person and place it on the horizontal plane, while the remote control will "beep" sound, drone indicator light is always on, indicating that the code is successful.  
Re-code: if the code cannot be matched, shake the aircraft and wait for the seven-color lights to flash blinking, long press the RESET button, the remote control matches the aircraft again. Important note: The aircraft is powered on. After the aircraft is turned on, the internal gyroscope needs to be horizontally corrected, so you must ensure that the ground surface is horizontal.

**Step two**  
As shown in the figure, push the joystick of the transmitter to the lower right corner at the same time. After the indicator light of the aircraft flashes quickly, release the transmitter and wait for the indicator light to light, calibration is completed.

### Operation:

Before you fly the drone, please do some simulated flight practice.

|                             |                                     |  |
|-----------------------------|-------------------------------------|--|
| Throttle (Top position)     |                                     | Push the throttle lever up, drone will fly up.   |
| Throttle (zero position)    |                                     | Push the throttle lever down, drone will fly down.   |
| Spin around                 | Turn left<br><br>Turn right<br>     | Push the throttle lever to left, drone will turn left.<br>Push the throttle lever to right, drone will turn right. |
| Flight forward and backward | <br>Fly forward<br><br>Fly backward | Push the direction lever up, drone will fly forward.<br>Push the direction lever down, drone will fly backward.    |
| Left/Right                  | Left<br><br>Right<br>               | Push the direction lever left, drone will fly to left.<br>Push the direction lever right, drone will fly to right. |

### Replacing Blades:

To achieve optimal flight function, the blades need to be checked or replaced after multiple flights. Emergency landings, especially from high altitude will damage blades.

- When replacing the blades, please make sure that the letters on the blades (A is the forward rotating blades, B is the reverse blades, letters are on the back of the blades).
- Pay special attention to replacing damaged blades with properly blades. Must not change the wrong direction of the blades!

### Charging:

The light is always on while in charging, and the light is 0 when battery is fully charged. Charge the lithium polymer (LiPo) battery only with the charger that comes with kit.

**Notice**  
If the radio transmitter beeps after several minutes of flight, the sound indicates the LiPo battery capacity is used up and need to be recharged. Land the aircraft immediately. Recharge the battery for next flight if you will fly soon. Otherwise do not store battery in fully charged status.

**The battery warning**  
Rechargeable battery:  
This drone can use rechargeable lithium batteries. If the battery cannot be recharged again, dispose of the battery properly according to local treatment regulations.  
Removable battery:  
Read the important battery safety warning below.  
• Do not mix with alkali, standard (carbon zinc) and rechargeable batteries (nickel hydrogen).  
• Don't mix old and new batteries.  
• Prohibits charging non-rechargeable batteries.  
• Rechargeable batteries should removed from the remote control (if removable) before being charged.  
• Rechargeable batteries can only be used under adult supervision.  
• Batteries shall be disassembled as soon as they are exhausted and must be properly recovered or disposed in accordance with national or local government decrees and rules.  
• Check supply terminals should not short circuit.  
• Recommendations using the same or the same type of battery.  
• Battery shall be installed according to correct polarity (refer to internal specification).  
• Don't throw batteries in the fire that could cause a leak or explosion.

| LED indicator    | Charging specification |
|------------------|------------------------|
| light off        | input                  |
| light on         | charging current       |
| charge completed | full voltage           |
|                  | 5V                     |
|                  | 600mA                  |
|                  | 4.2V ± 0.1V            |

| Battery and charge specification |                            |  |
|----------------------------------|----------------------------|--|
| battery type                     | battery specification      | charging time  |
| Lithium batteries                | 3.7V                       | using time about 60mins/charging current approx 0.6A |
|                                  | drone flight time: 5-6mins |  |

### Flight Adjustment:

**Cautions**

- Confirm again that the screws and blades are firm.
- Verify that the remote controller and drone's batteries are sufficient.
- Confirm again that the direction of the wind blade is fitting in right position.
- Please assemble the protect guard before take-off.

**Cautions**

- Make sure there are no other people or obstacles in the flying area.
- In order to fly safely, you must first practice the hover, which is the basis of flight action (hover: the drone stays in the air and maintains a fixed position).
- Please stand 2 meters behind the drone during practice.

### 1. Throttle lever practice

### 2. Direction control practice

**Caution**  
When the drone is flying far away, please lower the throttle and land the drone, then walk to the right astern of the drone for 2 meters and continuing the practice. Or bring it back to the home position keep practicing.

### 3. Rotation practice

1. Slowly raise the throttle lever to control the drone to a certain height.  
2. Push the throttle lever to the left/right slowly, make the drone rotate counterclockwise/clockwise slowly.

### 4. Precision practice

As you become familiar with the step 1-3, draw a circle on the ground and practice within the circle. It can increase your control accuracy. As you get more comfortable with the action, you can draw smaller circles.

### Head Chasing Mode:

- Connect the remote control and VR goggles with an audio cable.
- Open the VR goggles and place them on a level surface, then turn on the remote control.
- Press and hold the speed button to calibrate the VR goggles. During calibration, the indicator light of the remote control will flash quickly. When the calibration is completed, the remote control will make a long beep and the indicator light will be on. If the indicator light keeps flashing quickly, the calibration has failed, wait 30s before operating. When the remote controller is pairing with the drone, it cannot be calibrated.
- Turn on the drone and pair with the remote control, long press the remote control mode switch button to enter the head chase mode, the remote control beeps twice, long press again to exit, the remote control beeps once.
- Press the unlock button of the remote control, and you can take off with the head chasing function of the VR goggles.

**Notice**  
If the remote control has been turned on before connecting the audio cable, you need to press and hold the mode switch button twice to enter the head chase function.

### Head Chasing Mode Operation:

It is recommended to be proficient in flight simulation before flying

|                             |                                     |  |
|-----------------------------|-------------------------------------|--|
| Head-chasing motion control | Head up<br><br>Head down<br>        | Head up, drone up<br>Head down, drone down   |
| Left/right head turn        | Turn left<br><br>Turn right<br>     | When the head turns to the left, the drone rotates left.<br>When the head turns to the right, the drone rotates right. |
| Flight forward and backward | Fly forward<br><br>Fly backward<br> | Push the direction lever up, drone will fly forward.<br>Push the direction lever down, drone will fly backward.        |
| Left/right                  | Left<br><br>Right<br>               | When the head is tilted left, the drone moves left.<br>When the head is tilted to the right, the drone moves right.    |

**Notice**  
Long time use of head chasing function may lead to dizziness, please gradually adapt, pay attention to rest!

### 5. Change the direction of drone

When you feel familiar with Step 1-4, stand on the side facing the drone and continue to practice Step 1-4. Then, stand in front of the drone and repeat the steps.

### 6. Trim

Slowly lift the throttle lever. When the drone has just left the ground, if the drone tends to move around, you can use trimming to correct the action.

- After the drone takes off, if the drone slowly shift to the forward/backward direction, you can press forward/backward (as shown in the figure) to adjust. When it forward offset trim down to adjust. When it backward offset, trim up to adjust. (Without controlling the direction, slight deviation belongs to normal condition, drone without fixed point function).
- After the drone takes off, if the drone slowly shift to the left/right direction, you can press left/right (as shown in the figure) to adjust. When it right offset, trim left to adjust.

### Quick Start Guide:

- Battery Charging
- Drone Power On
- Controller Power On
- LCD Goggles Power On
- Channel Search
- Gently push up on the joystick and press to unlock

### Remote Control Simulator Connection:

The remote control of this product can be connected to computer software/games for flight simulation:

- The top of the remote control has a simulator socket, (you need to buy RC Simulator Cable by yourself)
- plug the audio plug of RC Simulator Cable into the socket at the top of the remote control.
- plug the other end of the Simulator into the USB socket of the computer.
- Open the flight simulator software/game and finish the settings to simulate flight on your computer.

### LCD Goggles:

#### 1. Preparation

##### 1-1. CONTENTS

\* SD card is not included

##### 1-2. BATTERY & CHARGING

### 1-3 Display & Buttons

#### 2. CAMERA

##### 2-1. CHANNELS

### Channel change

#### 2-2. MODE

#### 2-3. VIDEO

#### 2-4. PHOTO

### 3. ALBUM

#### 3-1. VIDEOS AND PHOTOS

#### 3-2. VIDEOS AND PHOTOS

#### 4. SETTINGS

##### 4-1. BACKLIGHT

##### 4-4. LANGUAGE

### Troubleshooting:

| Problem   | Cause   | Solutions   |
|---|---|---|
| 1. Turn on the drone, LED blinks, while the drone has no responding to all commands | Pair between drone and controller failed  | (please refer to the frequency alignment of remote controller and receiver in P3) |
| 2. Turn on the drone, the drone has no reaction to the commands                     | The battery died  | Charge the drones battery   |
| 3. Blades keep moving after landing   | Throttle lever is not at the zero position                                      | Put the throttle lever to zero position   |
| 4. Blades keep moving, while the drone can not take off                             | 1. Blades may installed wrong<br>2. No enough power                             | 1. Change the blades<br>2. Charge the drone                                       |
| 5. After trimming, drone keeps spin, and the speed of blades is different           | 1. Blades may installed wrong<br>2. Blades get damaged<br>3. Calibration failed | 1. Install the blades<br>2. Replace the blades<br>3. Refer to p3 for calibration  |
| 6. The drone can not take off after drop  | 1. Blades are getting lose<br>2. Blades get damaged                             | 1. Tighten the blades<br>2. Replace the blades                                    |

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# R/C FPV DRONE

with LCD Goggles

GT4890

## USER MANUAL