

Important statement

1. This product is applicable to teenagers and adults over the age of 12+. This remote controlled four-axis drone has certain difficulties at the early stage of learning. Suggest only fly under the guidance of someone with operational experience.
2. This product is designed with high and new technology in many aspects such as electronics and machinery. For those with less experience operator, it should be kept away from people during flight. We are not responsible for any serious personal injury or property loss which may result from improper operation.
3. Once the product is sold, we will not assume any safety responsibilities such as accidents occurred during operation or use.
4. In case of problems of use, operation and maintenance, you can contact local dealers to provide technical support or after-sales service.

Cautions:

1. Be sure to check your surroundings before flying.
2. Do not let the drone fly out of sight while flying.
3. Children cannot fly alone. Please fly with adults.
4. Please confirm that there is no other product using the same frequency band in the same area.

WARNING

- * 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.
- A 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.
- * This packing and instruction manual contains important information about the product. Please keep it.

Don't fly the drone in below conditions



Under the Signal tower,
high voltage pole



An amusement places with
too many people



A field of rain and thunder



Near Airport, rail cars



Roads and nearby places

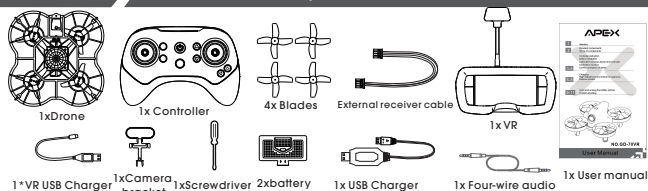


Near trees/ rivers

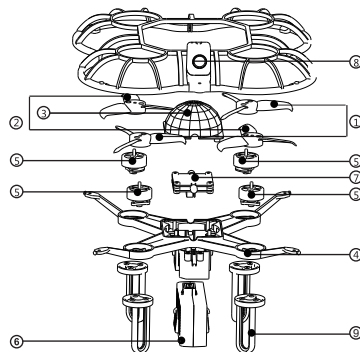


Strong wind environment

Standard components

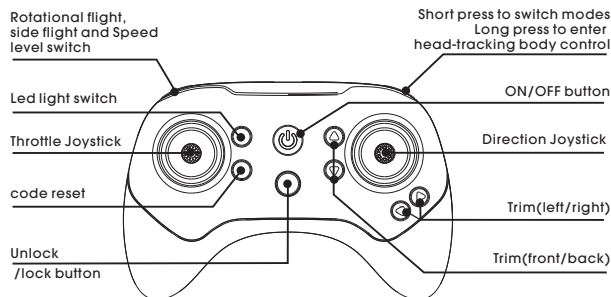


Name of components

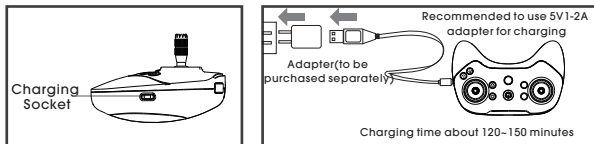


No	Name	Quantity
1	Reverse blades	2
2	Positive blades	2
3	Lampshade	1
4	Ball frame	1
5	Brushless motor	4
6	Battery	1
7	PCBA	1
8	Camera	1
9	Bottom bracket	1
10		
11		

Controller instruction

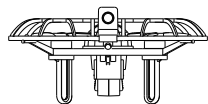


Instructions for charging the remote control



1. Plug a section of the charging cable into the charging port of the remote control and the USB port into the charging adapter, 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 reaches saturation status.

Calibration between drone and controller



On a flat surface

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/the 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 Lights, calibration is completed.



WARNING
If long time not used it, please take out the battery of the remote control and keep it properly. Note: If not remove the batteries of the remote control, store it for long time will cause leakage of battery and damage the remote control, even cause the risk of burning.

Controller's function

1. 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.

2. 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

**Hit the throttle to the lowest position,
press the unlock button to unlock**



3. 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

4. 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.

5. Rotating flight

Throttle joystick turn to left /right, the drone will left/right rotating fly.

6. Forward/backward. Left /right

Direction joystick turn to forward/backward/ left/right. the drone will fly forward/backward/left/right.

7. Trim function

When the aircraft flight is deviating, press the trim button to adjust the flight attitude.

8. Led light

Short press the led switch button to change the 7 led colors.

9. 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 third sound is the third gear, the maximum speed. Press again to switch to gear 1, and cycle switching.

10. Short press to switch modes and long press to enter head body control

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.

Connection method

Drone - How to connect other FPV goggles

This drone is 5.8G, you can match with 5.8G VR goggles and use them directly —5.8G same frequency (such as 5880/5860, etc.) can complete the pairing.

Drone - how to connect non-original remote control

You need to buy the receiver by yourself, use the receiver's four spell line correspondingly inserted into the aircraft's receiving socket, the remote control debugging to code successfully, you can realize to control this drone with other remote control.

Remote Control - How to connect to computer for flight simulation

You need to buy RC Simulator Cable by yourself, one end is connected to the computer and the other end is plugged into the remote control. In addition, you need to download the flight simulation software by yourself.

This product can also be operated with a universal remote control

How to connect other brand remotes

1. Purchase a universal 2.4G remote control (requires a special receiver).

2. Take out the 4-piece cable that comes with the receiver.

3. First unscrew the two screws of the drone casing and open the casing.

4. Connect the connecting wires to the connectors on the PCB board inside the aircraft in sequence.

5. Arrange the connecting wires to go out from the rear end of the casing, install the casing, and screw on the screws.

6. Turn on the remote control, install the battery on the aircraft, open the remote control function page, connect the receiver, and complete the 2.4G pairing. At this time, the universal remote control can control the drone.

Notice

A. Buying a universal remote control requires a receiver;

B. The 4-piece cable of the receiver needs to be inserted into the aircraft in sequence.

C. The universal remote control purchased is 2.4G, with SBUS and PPM receivers (the brand is not required)



External receiver cable



payattention

A. Buying a universal remote control requires a receiver;

B. The 4-piece cable of the receiver needs to be inserted into the aircraft in sequence.

C. The universal remote control purchased is 2.4G, and the accessories are SBUS and PPM receivers (the brand does not require).

Correct operations of drone

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

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

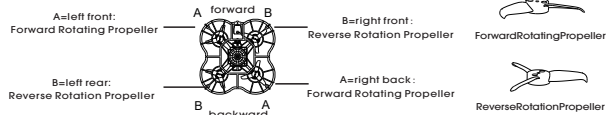
Replace blades

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.

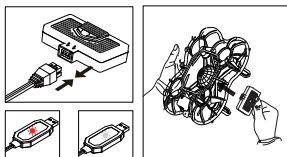
1. When replacing the blades, please make sure that the letters on the blades (A is the forward rotating blades, B is the reverse blades, letters are on the back of the blades).

2. A: Pay special attention to replacing damaged blades with properly blades. Must not change the wrong direction of the blades!

B: Please pay attention to the screws that fix the fan blades to prevent them from loosening and falling into the motor and causing serious damage



1. Remove the lithium battery from the drone, the rest of the steps are the same as charging the remote control.
2. Plug the charging cable into the USB port of the computer host. The method is the same as above, and the charging can also be completed.
3. The indicator light is always on during the charging state, and it will automatically crush out when the battery reaches the full state. (It takes about 120 minutes to recharge the battery after it runs out of power)
4. When the charging line is inserted into the USB port and lithium battery is not plugged into the charging line, the indicator light of the charging line flashes is a normal condition.



Caution

During the flight, when you hear the "beeps" sounds from the remote control, it indicates that the Drone's battery voltage is not enough, so the drone should fall behind to recharge. It need to charge it with the special charger we gave.

During the flight, when the remote control indicator lights flicker, it indicates that the remote control battery voltage is not enough, please replace the remote control battery.

Rechargeable battery:

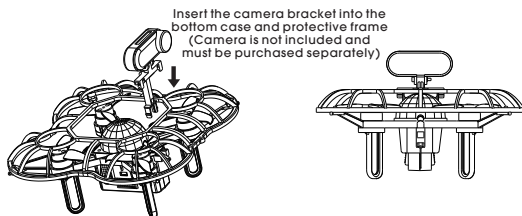
This drone can use rechargeable lithium batteries. If the battery cannot be recharged again, dispose of the battery properly according to local treatment regulations.

Remote control battery:

The remote requires 2 "AAA" batteries (not included). 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 be 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.
- Recommends 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.

How to install the camera bracket



Insert the camera bracket into the bottom case and protective frame (Camera is not included and must be purchased separately)

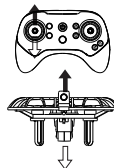
Caution

- 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.

Caution

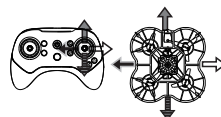
- Make sure there are no other people or obstacles in the flying area.
- In order to fly safely, you must first practice the hover, which is the basis of the flight action (hover: the drone stays in the air and maintains a fixed position).
- Please stand 2 meters behind the drone during practice.

1. Throttle lever practice



Throttle control is in the left hand, push throttle rocker up slowly, immediately release the rocker, the drone will rise and hold at a fixed height; Pull the lever slowly down, and release the lever immediately, and the drone will descend and stay at a fixed height. Repeat until you are able to control the drone to any height, and you are stable settle down to the ground.

2. Direction control practice



1. Practice forward and backward, it's in the right hand up and down direction. Keep the drone at a certain height. Then fly one meter forward slightly, after the drone stabilized, fly back one meter. And repeat this practice.
2. Practice left and right side flying, it's in the right hand left and right direction. side. The method is the same as above.

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.

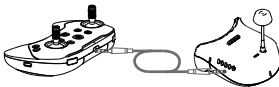


Introduction to Head Chasing Body Sensation Mode

1. Connect the remote control and VR goggles with an audio cable;
2. Open the VR goggles and place them on a level surface, then turn on the remote control;
3. 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;
4. 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;
5. 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



Operation of Head Chasing Body Sensation Mode

It is recommended to be proficient in flight simulation before flying

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

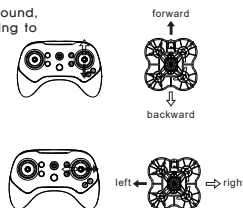
5. Change the direction of drone

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.

1. 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).
2. 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; When it right offset, trim left to adjust.

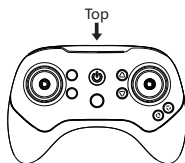


Quick Start Guide

1 Battery Charging	2 Drone Power On
3 Controller Power On	4 VR Power On
5 Channel Search 5.8G channel switching button	6 Gently push up and press to unlock

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

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



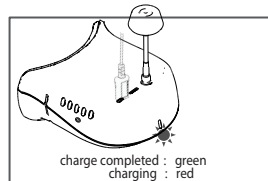
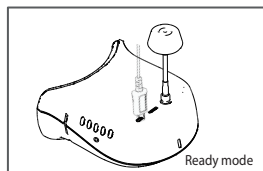
VR Glasses

1. Preparation

1-1. CONTENTS



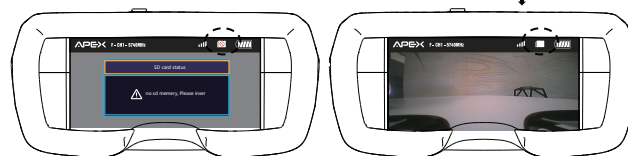
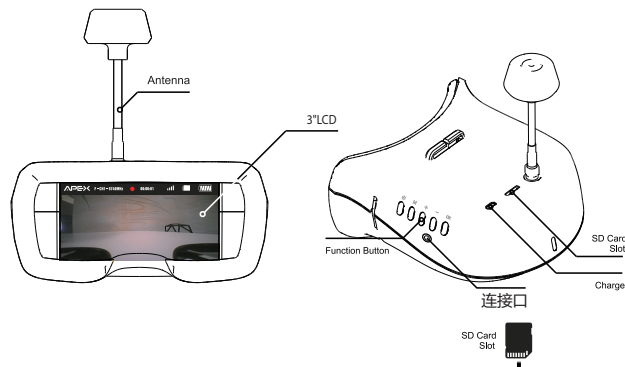
1-2. BATTERY & CHARGING



1-3. SPECIFICATION

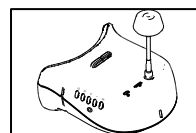
Screen Size	3 inch
Screen Type	TFT LCD
Resolution	360X640 pixels
Brightness	320cd/m2
Sensitivity	-90dBm
Channel	48 channels
Dimension	135.6*134.8*63.5 (mm)

1-4. DISPLAY & BUTTONS

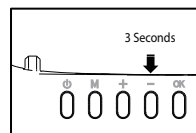


2. CAMERA

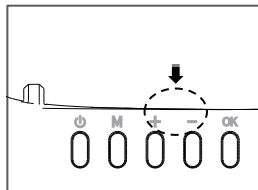
2-1. CHANNELS



OR



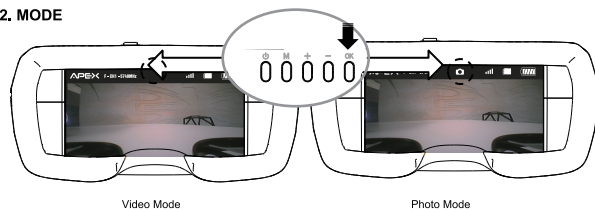
Channel change



Channel List

CH	F	R	A	B	E	H
CH1	5740	5658	5865	5733	5705	5362
CH2	5760	5695	5845	5752	5685	5399
CH3	5780	5732	5825	5771	5665	5436
CH4	5800	5769	5805	5780	5645	5473
CH5	5820	5806	5785	5809	5885	5510
CH6	5840	5843	5765	5828	5905	5547
CH7	5860	5880	5745	5847	5925	5584
CH8	5880	5917	5725	5866	5945	5621
MHz	MHz	MHz	MHz	MHz	MHz	MHz

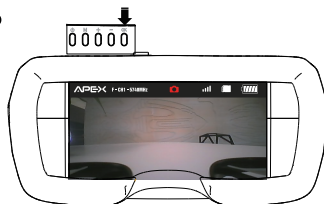
2-2. MODE



2-3. VIDEO



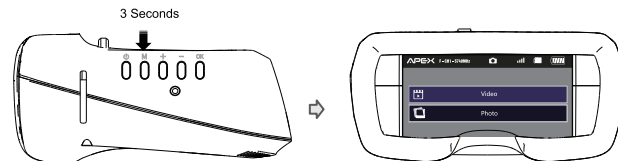
2-4. PHOTO



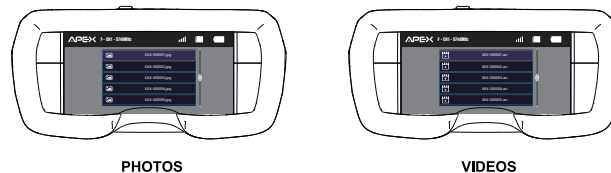
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3. ALBUM

3-1. VIDEOS AND PHOTOS



3-2. VIDEOS AND PHOTOS



4. SETTINGS

4-1. BACKLIGHT



4-2. LANGUAGE



4-3. CONTRAST

4-4. SATURATION

=14=

	Troubles	Causes	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 drone
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 2.No enough power	1.Change the blades 2.Charge the drone
5	After trimming ,drone keeps spin, and the speed of blades is different	1.Blades may installed wrong 2.Blades get damaged 3.Calibration failed	1.Install the blades 2.Replace the blades 3.Refer to p3 for calibration
6	The drone can not take off after drop	1.Blades are getting lose 2.Blades get damaged	1.Tighten the blades 2.Replace the blades



FACEBOOK

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YOUTUBE



IM-G122-EN-01

=15=

APEX

1

Attention

2

Standard components

Name of components

Controller instruction

Battery installation

Calibration between drone and controller

Controller's function

Connection method

This product can also be operated with a universal remote control

Correct operations of drone

Replace blades

3-6

Drone Li-Ion Battery Charging

How to install the camera bracket

Flight adjustment and notice for beginners

Introduction to Head Chasing Body Sensation Mode

Operation of Head Chasing Body Sensation Mode

7-9

Quick Start Guide

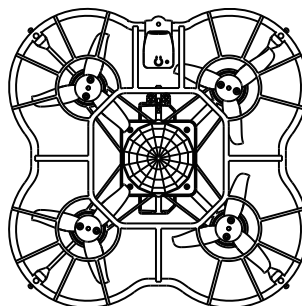
Simulator usage

VR Glasses

Insert and unplug the battery picture

Problem shooting

10-15



G122

User Manual