

CONTACT US

We'll Always be There for You.

If you have any questions or concerns, please feel free to contact us at



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Hillardow

Hillardow Drone D13 with Cam

WELCOME GUIDE

MODEL NO.D003BL

Thank you for choosing Hilldow D13 Drone

Hilldow provides a straightforward warranty that is processed in the most hassle-free way possible.

Below are a few steps to help you get started.

DISCLAIMER & WARNING

- Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. This product is not recommended for people under the age of 10. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damaged caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable polices and guidelines Hilldow may make available.

- When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factor, **WILL NOT** be Hilldow's responsibility.

SAFETY GUIDELINES Check Before Use

1. This product is a high precision drone that integrates various electronic stability and control mechanisms. Please be sure to setup this drone carefully and correctly to ensure safe, accident-free operation.
2. Please be sure that the batteries of the drone and transmitter are clean, undamaged and, fully charged.
3. Please be sure that all the propellers are undamaged and are installed in the correct orientation.
4. Please do a thorough check of the product before each use. Check for firmness of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the indicator, etc. If after doing a complete check any issues are found, please refrain from using the product until the issue has been resolved.

Flight Environment



Fly in Open Areas

+



+



*Fly Below
390 feet (120m)*

*Maintain Line
of Sight*



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water. **DO NOT** fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.

Don't use this drone in adverse weather conditions such as rain, snow, fog, and wind.



Operations Requirements

1. Please don't use this product to follow any moving vehicles .
2. During the flight, only turn off the motor in case of an emergency.
3. Please flight the drone back to you as soon as possible when the battery is running low.
4. This product should not be used while drinking alcohol, if you are feeling fatigued, taking medicine, or feeling any physical discomfort.

Use of Battery

1. Please ensure batteries are fitted in the correct orientation as shown in the instruction manual.
2. Avoid short circuits by fitting the batteries incorrectly, and do not crush or squeeze the batteries as this could carry the risk of an explosion.
3. Dispose used batteries carefully, do not litter.

4. Please keep dead batteries away from heat and fire.
5. If the device is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.
6. It is recommended to only use the USB charging cable that comes with the drone to charge the battery.
7. Don't connect the battery directly to wall outlets or car cigarette -lighter sockets.
8. Don't attempt to disassemble or modify the battery in any way.
9. Don't use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
10. Don't pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it!

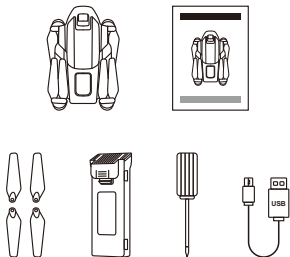
11. Always charge the batteries in a fireproof container and away from combustible materials. Don't charge on surfaces that can catch fire. This includes: wood, cloth, carpet, or in the application's device.
12. Don't immerse the battery in water or allow it to get wet.
13. Don't solder battery terminal directly.
14. Keep battery out of reach of children or pets.
15. Don't short-circuit the battery by connecting wires or other metal object to the positive(+) and negative(-) terminals.

Li-Po Battery Disposal & Recycling

Waste Lithium-polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the waste agency or your nearest Li-Po battery recycling center.

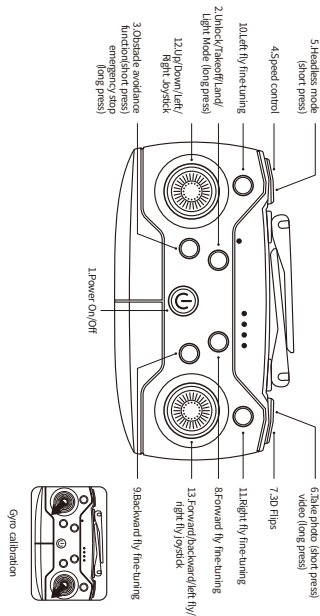


WHAT'S IN THE BOX



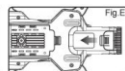
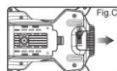
- 1 x Hilldown D13 Drone
- 1 x Micro-USB Cable
- 6 x Spare Propellers
- 3 x Intelligent Flight Battery
- 1 x Welcome Guide
- 1 x Remote Controller
- 1 x Screwdriver
- 4 x Propeller Guards

REMOTE CONTROL DESCRIPTION



Serial Number	Function keys / Names	Function/Effect
1	Power On/Off	Press once to power on the remote control and press again to disconnect the power
2	Unlock/Release/Land/ Light Mode(long press)	The first short press will unlock the drone, the second short press will automatically take off the drone, the third short press will automatically land the drone, long press for three seconds to switch the drone light mode (a total of three)
3	Obstacle avoidance function (short press) / emergency stop (long press)	Short press to turn on or off the obstacle avoidance function; long press for three seconds to turn on the emergency landing function
4	Speed control	Three speed modes can be switched: low speed, medium speed, high speed
5	Headless mode(short press)	Short press to enter headless mode (note, prohibit long press)
6	Take photo(short press)/ video (long press)	Short press to enter photo mode; long press for three seconds to enter video mode
7	3D Flips	Short press to enter the 360° flips function
8	Forward fly fine-tuning	Short press to move the drone forward slightly
9	Backward fly fine-tuning	Short press to move the drone backwards slightly
10	Left fly fine-tuning	Short press to move the drone to the left slightly
11	Right fly fine-tuning	Short press to move the drone to the right slightly
12	Up/Down/left/right Joystick	Up/Down; Left/Right
13	forward/backward/ left fly/right fly joystick	forward/backward; fly left/fly right

PREPARING Battery 1

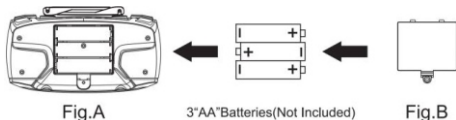


1. Press the drone's rear battery module and pull the lithium battery module out of the drone battery compartment.(Fig.C)
2. Plug the USB charging cable into the USB power socket, then connect the other end to the charging socket of the Li-ion battery module; when charging, the LED light is red, when charging is finished, the LED light will be off automatically, the charging time is about 120 minutes.(Fig.D)
3. After charging is complete, insert the lithium battery module into the battery slot as shown below.(Fig.E)

Note:

1. Please fully charge the battery before flying.
2. When the drone enters the low-pressure alarm, the body light will flash slowly.

Battery 2



1. Remove the battery cover from the back of controller (Fig. A)
2. Install 3 “AA” batteries into the controller, make sure to install batteries to their correct polarity. (Fig. B)
3. Do not mix old and new batteries or battery types.
4. Replace the battery cover.

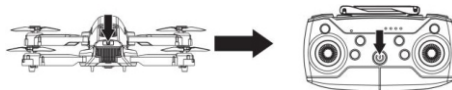
Note:

1. When inserting the battery, please make sure the positive electrode corresponds to the positive and the negative electrode to the negative. Remember not to install them in reverse.
2. Do not use new and used batteries in the same time.
3. Do not mix different types of batteries.

Take off steps

A:Drone frequency

1. Install the drone battery and the remote control battery, turn on the drone power switch, and the body lights up and then put it on the level ground.
2. Turn on the remote control power switch, The light on the aircraft body turns steady on, indicating that the remote control is successfully linked.(Important note: the product must be operated in steps, otherwise it is easy to connect and control badly.)



B:Calibration of gyroscope operation

After the drone and the remote control have successfully matched the frequency, the drone can be corrected, and the throttle lever and the direction control lever are simultaneously hit to the lower right corner. At this time, the indicator light of the drone flashes rapidly, and the

indicator light is always on, and all the buttons of the remote controller are released.

The calibration is complete.

Special Tips:If the drone takes off and flies, it can also be corrected by correcting the gyroscope.

Note:Correction should be done at the horizontal level.



C:Drone unlock

When the aircraft is operated by the remote control, it needs to be unlocked to start, press the unlock button of the remote control lightly (Fig.1), or push the left joystick of the remote control upward (Fig.2), then the four propellers will turn at the same time at the same speed, which means the unlocking is successful. When the unlocking is completed, the aircraft can be operated normally.



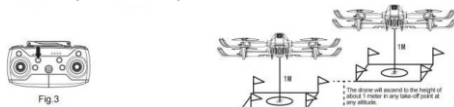
Fig.1



Fig.2

D:One key take off and landing

When the unlocking is completed, press the function button of the remote control (Fig. 3) again, the drone will automatically rise to a height of about 1 meter to keep the altitude flying smoothly; when the button is used for the takeoff/landing icon, the drone will automatically land slowly.

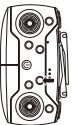


Note:One key landing must land on a horizontal plane, because a fixed-height function landing on a horizontal surface will cause the drone to fly and fly.

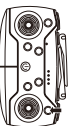
Flight step prompt: frequency(A) → gyroscope correction(B) → unlock(C) → one key take off/one key landing(D)

Trimming function

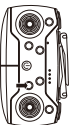
if the drone does not push the rudder lever during flight and is still yawing to some direction, you can use the fine adjustment function to adjust the rudder. The operation is as follows:



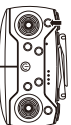
if the drone moves backward while hovering, press the forward trimming button, until the drone stops moving backward.



if the drone flies to the left while hovering, press the right sideward trimming button, until the drone stops flying to the left.



if the drone moves forward while hovering, press the backward trimming button, until the drone stops moving forward.

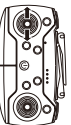


if the drone flies to the right while hovering, press the left sideward trimming button, until the drone stops flying to the right.

Control method



When the left joystick (throttle) is pushed upward, the main wind blade speed increases and the drone rises. When the left joystick (throttle) is pushed down, the main wind speed slows down and the drone drops.



When the left lever (rudder) is pushed to the left/right, the drone heads to the left/right.



When the right lever (rudder) pushes up/down, the drone moves forward/back.



When the right lever (rudder) is pushed to the left/right, the drone fuselage is tilted to the left/right.

Headless mode

1. Startup and setup: In front of the drone when the power is turned on, the default is the front of the headless mode; if the impact or the front of the flight is biased, please restart the drone and adjust to the direction you need to perform the frequency; after the frequency is successful, the machine The head direction is the front of the headless mode. When the headless mode button is pressed (Fig.5), the drone body light flashes and enters the headless mode.
2. Exit headless mode: Press the headless mode button again (the remote control emits a "Di~"), the body light turns on constantly, and the headless mode is exited.

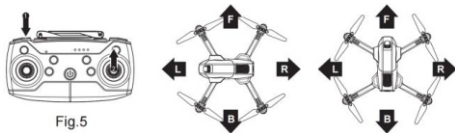


Fig.5

As shown in the above figure, in the headless mode state, no matter which direction the drone head is turned, the remote control direction lever is pushed forward, and when the drone is turned on, the head moves in the direction of the head.

One avoidance

During the flight, if the aircraft is close to the wall or other obstacles in the front/left/right direction, it will automatically evade to a safe area of about 1 meter, which is because the aircraft opens the obstacle avoidance function by default. If you want to switch to normal height mode, tap this button to close the obstacle avoidance function.



Note:

- *When the drone takes off, the obstacle avoidance function will be automatically turned on.
- *Do not fly in a small space indoors and make sure the drone has enough space to avoid obstacles.

One key emergency

When the aircraft collides during the flight and cannot be controlled, please immediately long press the remote control one key emergency stop button for 3 seconds to use the emergency stop function key To achieve an emergency stop, not available under normal circumstances.



One key 360° flips

The drone can make a 360° flight through the rocker operation below. In order to perform the tumbling function better, please ensure that the drone is fully charged and maintains a height of about 1.5 meters with the ground. It is best to operate the drone for tumbling during the ascent, so that it is easier to maintain the height after the drone is tumbling.

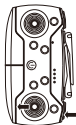
When the battery is low, the roll will show height or roll.
Please charge it in time to experience more flying fun

360° flips on the left. Short press the flips button, then push the right joystick to the left, and the drone will turn 360° to the left.

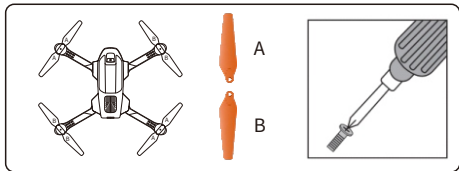
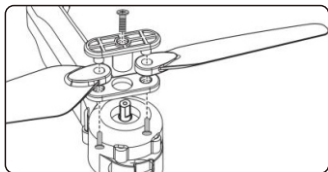
360° flips on the right. Short press the flips button, then push the right joystick to the right, and the drone will turn 360° to the right.

Roll forward 360° flips. Short press the flips button, then push the right joystick lever up, and the drone will turn 360° to the front.

Roll back 360° flips. Short press the flips button, then push the right joystick lever down, and the drone will turn 360° to the back.



Install the propellers

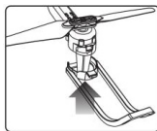


1. Please unscrew the screws to open the two propellers and the connecting parts as shown in the figure below. Remove the propellers and replace them.
2. Make sure all propellers are installed in the correct orientation; if the installation is wrong, the drone will not be able to fly normally.

Install the guards

1. The drone is equipped with 4 guards.

It is recommended that you install guards to prevent damage or damage to the rotors. If you need to install or remove, just press or dial out the corresponding position of the guard.



Speed switching

Speed switching: “Di~” is the low speed mode, “Di~Di~” is the medium speed mode, and “Di~Di~Di~” is the high speed mode. (power on default low speed mode)

APP CONTROL

Download the Fly App named KY FPV

Make sure to use our app during flight.
Scan the QR code to download the latest version.



IOS



Android

*The Android version of our App is compatible with Android v6.0 and later. The iOS version of our App is compatible with iOS v10.0.2 and later.

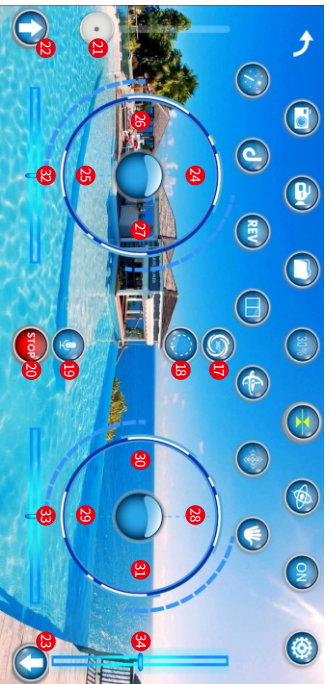


KV FPV

Connection Details

1. Power on the drone, then the indicator starts to flash. This means it's ready for connecting to the mobile phone.
2. Click 'Settings' on the mobile phone, and find the WiFi named 'KY*****' then click. When it shows 'Connected', this means your drone is successfully connected to the mobile phone. Now you can quit the 'Settings'.
3. Open the software, press 'START' to real-time mapping interface.





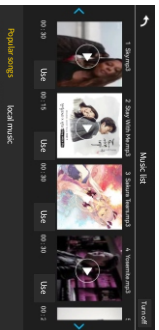
17. 360° Flip
18. Flight path
19. Voice control
20. Emergency stop
21. Manual focusing
22. One key take-off
23. One touch landing
- 24/25. Throttle Control
- 26/27. Rotation
- 28/29. Forward/Backward
- 30/31. Side Flight
32. Rotation Fine Tuning
33. Flight Fine Tuning
34. Fine tuning



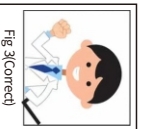
- ## Instruction
1. Back
 2. Take photos
 3. Video shooting
 4. Media library
 5. Speed: 30% 60% 100%
 6. Fixing height
 7. Gravity induction
 8. Control panel
 9. More options
 10. Interference lens
 11. Music Video
 12. Image flip
 13. Split screen mode
 14. Gyroscope correction
 15. Headless mode
 16. Gesture recognition

Music Recording

1. Click the **d** icon to enter your music library and select desired background music and click “use”. After clicking use, return to the camera control's interface.
2. When music synthesis is turned on, **d** will appear on the left side of the control interface, and the **d** icon will change to **d**.
3. Click to **d** start recording background music playing will be saved to your video recording).
4. Close the music: click **d** to enter the music list, Turn off in the upper right corner.



Gesture Recognition



Gesture photo: Stand 6.5 feet in front of the drone's camera lens. Raise one of your hands up flat beside your body and face your palm forward towards the camera. The drone will recognize the gesture and initiate its gesture recognition function. It will begin a 3 second countdown (at this time your hand can be lowered) - it will begin a 3 second countdown (at this time your hand can be lowered) then take the picture.

(Note: The time difference between taking consecutive gesture photos must be greater than 3 seconds.)

(Note: Some mobile phones do not support this function. Opening the function will cause picture delay.) (Fig. 1,2)

Gesture video: Stand 6.5 feet in front of the drone's camera lens. Clench one of your fists, raise that hand up flat beside your body and face your palm forward towards the camera. The drone will recognize the gesture and initiate its gesture recognition function. It will begin a 3 second countdown (at this time your hand can be lowered), then start recording. Repeat the clenched fist gesture to stop the recording.

(Note: No palm detection during video recording.) (Fig. 3,4)

Special effects

Filters : On the camera control interface, click  to enter the filter interface. Click  again to display various filter options. After selecting the desired filter, click  to exit the filter options.

Click  to exit the filter interface and return to the main control interface.

Rotation effect: Click  on the filter control interface to use the rotation effect once.



Manual Focusing

Press and hold the track ball on the left of the camera control interface and slide  to adjust the image's focal length (1x-50x digital magnification).

1X : turns off focus adjustment (the image is the default size).

50X: 50 times the maximum focal length (the image is zoomed in).

 : in the process of recording, you can manually adjust the focal length by sliding this key up and down.

