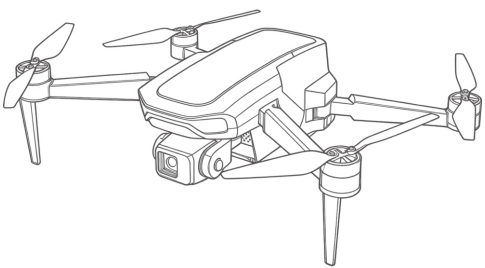
YIKKEON

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Instruction Manual

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1.0 SAFETY GUIDELINES

1.1 Age & Beginner Guidance

This product is intended for users aged 14 years and above. Due to its operational complexity, first-time users should practice under the supervision of an experienced pilot. Beginners are strongly advised to practice low-altitude flights in wide, open, and unpopulated areas for at least three days before attempting high-altitude or long-distance flights.

1.2 Rotating Parts & Injury Prevention

After powering on the aircraft, keep hands, face, hair, and clothing away from all high-speed rotating parts, including propellers, gears, and rotor blades. Contact with rotating components may cause serious injury.

1.3 High Temperature Warning

During and after operation, the aircraft's battery, motors, and circuitry may become hot. Avoid direct contact to prevent burns or heat-related injuries.

1.4 Flight Restrictions & Airspace Safety

To comply with aviation and radio regulations, do not operate the drone within a 5,000-meter radius of any airport runway center.
Also avoid flying during restricted periods or in designated areas where radio control limitations are issued by local authorities.

1.5 Frequency & Line-of-Sight Operation

Ensure that no one nearby is operating devices on the same frequency to avoid interference.
Always maintain visual line of sight (VLOS) with the aircraft during flight.

2.0 BATTERY SAFETY

2.1 Usage Warnings

① Keep the battery out of reach of children.

②Using the battery involves certain risks, which may result in fire, personal injury, or property damage.

③ Users must be aware of these risks and assume full responsibility for proper battery use.

④If the battery is dropped, emits an unusual odor, overheats, changes color, deforms, leaks, makes abnormal noises, or produces smoke, stop using it immediately and replace it. Avoid contact with the electrolyte. In case of contact with eyes or skin, rinse immediately with clean water and seek medical attention.

⑤Do not disassemble, modify, or puncture the battery. Do not short-circuit the battery.

2.2 Charging Instructions

① Do not charge swollen or worn-out batteries.

② Do not overcharge. Disconnect the charger immediately after the battery is fully charged.

③ Do not charge the battery near flammable materials, such as carpets, wooden floors, furniture, or on electrically conductive surfaces.

④ Always monitor the battery while charging. Do not leave it unattended.

⑤ Ensure the battery has cooled before charging. Charging temperature should be between 0°C and 40°C, and battery temperature must not exceed 60°C (140°F). Avoid charging in humid conditions or under direct sunlight, and do not store the battery in high-temperature environments (e.g., inside a car under the sun).

⑥ Do not mix different types of batteries or new and used batteries.

2.3 Recycling and Disposal

① Do not dispose of the battery with household waste.

② Follow local regulations for battery disposal and handle batteries according to proper recycling procedures.

3.0 MAINTENANCE

① Clean the product after each use with a clean, soft cloth.
② Avoid prolonged exposure to direct sunlight. Do not allow the drone or batteries to overheat.
③ This device is not waterproof. Do not submerge it or allow it to come into contact with water under any circumstances. Failure to keep the device completely dry may result in malfunction or permanent damage. Be aware that even if the area around you is dry, moisture such as rain droplets, mist, or spray from rivers or waterfalls may still damage the drone while it is flying.
④ Regularly inspect the charging plug and all accessories for any signs of wear or damage. If any part of the device or its cables is damaged, discontinue use or charging until the unit has been properly serviced.
⑤ If the battery will be stored for an extended period, avoid keeping it at full charge. Allow the battery to discharge slightly before storage to help maintain its health and prolong its lifespan.

4.0 FLIGHT ENVIRONMENT



It is recommended to operate the drone in a good weather , a spacious area, and keep the drone within your visual line of sight during flight.



Ensure that the aircraft stays away from obstacles, power lines, trees, crowds, airports, and bodies of water.



Do not operate the drone in extreme environments, such as high temperatures, low temperatures, heavy fog, strong winds, or heavy rain.

5.0 WHAT 'S IN THE BOX



Drone x1



Remote Control x1



Battery x3



Propeller A x4 B x4

Screwdriver x1



USB Charging Cable x3



MicroSD Card x1



Card Reader x1

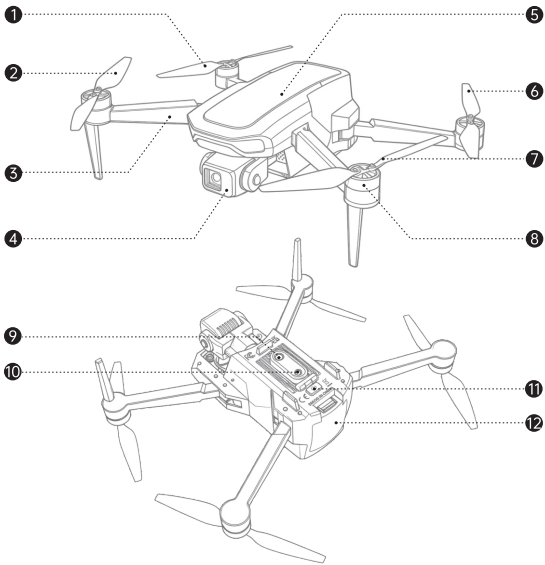


USB Data Cable x3



Instruction Manual x1

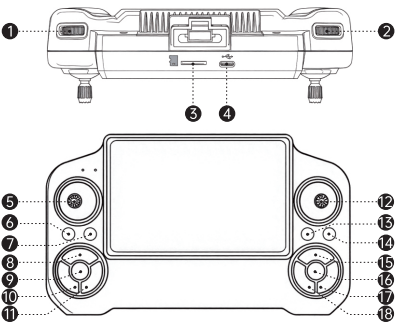
6.0 KNOW YOUR DRONE



1. *Propeller A*
2. *Propeller B*
3. *Arm*
4. *UHD Camera*
5. *Upper Casing*
6. *Propeller B*
7. *Propeller A*
8. *Brushless Motor*
9. *Optical Flow Lens*
10. *Indicator Light*
11. *Power Switch*
12. *Drone Battery*

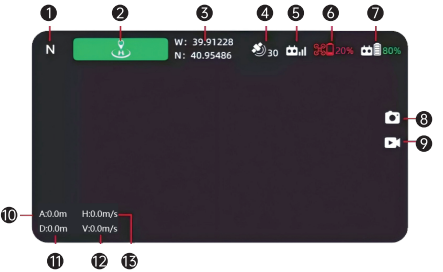
7.0 KNOW YOUR TRANSMITTER

7.1 Remote Controller Overview



1. *Camera adjustment*
2. *Speed switch*
3. *Memory card slot*
4. *Data cable /Charging pot*
5. *Left joystick*
   Up/down/turn left and right
6. *Gyroscope calibration*
   (short press)
   Headless mode
   (press and hold)
7. *Geomagnetic calibration*
8. *Unlock*
9. *Power switch*
10. *One-press for return*
11. *GPS switch*
12. *Right joystick*
    Forward/backward/ fly left and right
13. *Take photos*
14. *Video recording*
15. *Return*
16. *Menu/Play*
17. *Scroll down*
18. *Scroll up*

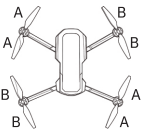
7.2 LCD Display Interface

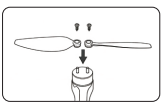


1. *Speed gear*
2. *Flight status*
   Flight mode
3. *Latitude and longitude*
4. *Number of satellites*
5. *Remote control signal*
6. *Aircraft battery level indicator*
7. *Remote control battery level indicator*
8. *Photo mode*
9. *Video mode*
10. *Altitude*
11. *Distance*
12. *Vertical speed*
13. *Horizontal speed*

8.0 INTALLATION

8.1 Inspect the Propellers

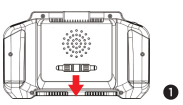


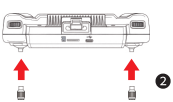


Unfold the arms and check the propellers for deformation or incorrect installation, if any, replace it immediately. The replacement propeller must match the correct position. Install Propeller A only on Position A, and Propeller B only on Position B. Ignore any numbers on the propellers, as they are only manufacturing mold codes. During operation, Propeller A rotates clockwise, while Propeller B rotates counterclockwise.

Note: before each flight, check the propellers for deformation or incorrect installation, as either may cause loss of control.

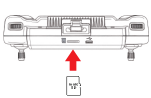
8.2 Install the Joystick Tip





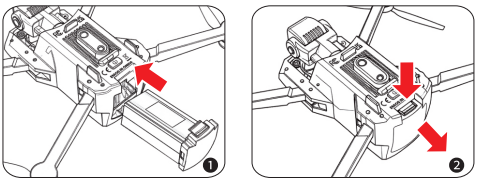
Remove the joystick tips from the slot on the back of the remote controller (pic.❶), and install them onto the control sticks (pic.❷).

8.3 Insert the MicroSD Card



Insert the memory card before the flight to store photos and videos. After the flight, use the included card reader to view the files on your computer.

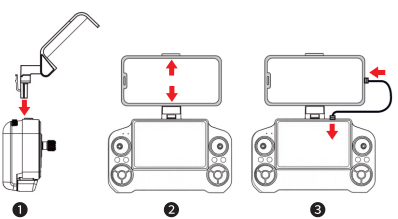
8.4 Drone Battery



Installation: Slide the battery into the compartment along the guide rails until it locks in place with a clear click. (Pic.❶)
Removal: Press the battery's release button and pull the battery backward to detach it from the aircraft. (Pic.❷)

Note: ensure the battery is securely installed. A loose battery may cause power loss during flight, leading to unstable operation or a possible crash.

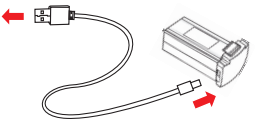
8.5 Install the Phone Holder and Connect Your Phone



Put the mobile phone frame into the remote controller (pic.❶).
Stretch it up to place the phone (pic.❷).
Connect the mobile phone to the remote controller using a data cable. (pic.❸) At this time, a message will appear on your mobile device asking whether to trust this device. Please tap 'Trust.'

9.0 CHARGING

9.1 Drone Battery

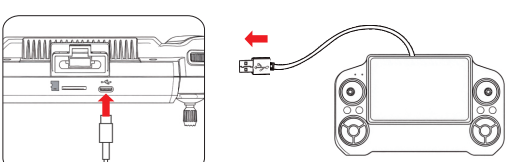


When the drone battery is low, the indicator lights on the aircraft will flash continuously.
Remove the battery and connect the USB charging cable to the battery's charging port.
Insert the other end of the USB charging cable into a USB port on a power bank or a USB adapter (5V/2.0A).
During charging, the red indicator light on the USB charging cable will stay on.
When the battery is fully charged, the light will turn off.
Charging time is approximately 360 minutes.

⚠ Caution

Before charging, please read the "Battery Safety" section carefully!
If charging fails, the indicator light on the charging cable will flash rapidly.

9.2 Transmitter Battery



When the remote controller battery level is below 10%, a warning "DiDiDi" will sound. Connect the USB charging cable to the charging interface. Plug the USB charging cable into a USB charging port on the power bank or USB adapter(5V/2.0A). While charging, the remote controller's green indicator light will turn on. When the light turns off, the battery is fully charged. Charging time is about 180 minutes.

⚠ Caution

- Before charging, please read the "Battery Safety" section carefully!
- Please make sure the remote controller is fully charged before flight.
- If charging fails, the indicator light on the charging cable will flash rapidly.

10.0 DOWNLOAD THE APP

Scan the QR code, or search for "YIKKEON GPS" in the Apple App Store or Google Play to install it.

Scan to download

YIKKEON GPS

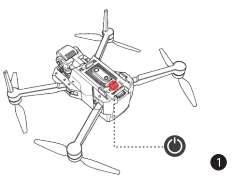
Note: During installation, permission requests may appear. Be sure to tap Allow to grant all permissions.

11.0 HOW TO FLY THE DRONE

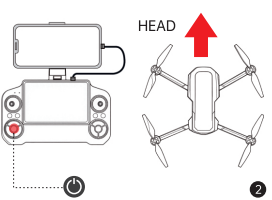
This drone is equipped with a GPS positioning system. When powered on, it defaults to GPS mode. Before flight, you must complete frequency pairing, calibration, and satellite searching before takeoff.
If you wish to fly indoors or in areas with weak GPS signals, press and hold the GPS button to switch to Optical Flow Positioning Mode. When flying in Optical Flow Mode, only **pairing (11.1)** and **gyroscope calibration (11.3)** are required before takeoff. However, this mode is only suitable for short-distance flights, and functions such as Automatic Return (RTH) will not be available.
The following section describes the takeoff procedure in GPS Mode. We recommend flying in GPS Mode for a safer and more stable flight experience.

11.1 Pairing

Press and hold the power switch to turn on the drone. The indicator lights on the drone will start flashing.



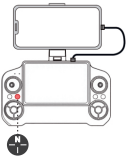
Place the drone on a flat surface and make sure the remote controller is facing the same direction as the front of the drone. Turn on the remote controller to start automatic pairing. When you hear "DiDi" sounds and the drone's indicator lights flash slowly, the pairing is complete.



11.2 Compass Calibration

Geomagnetism can be easily affected by nearby electronic devices, which may cause abnormal data and impact flight performance. Before the first use, geomagnetic calibration must be performed. Please follow the steps below to calibrate the geo-magnetic field:

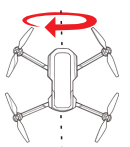
① Start Calibration: Short press the calibration button on the remote control. The remote control will emit a "Di" sound. Calibration can now be performed.



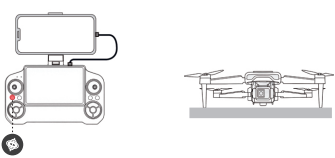
②Horizontal Calibration: Hold the drone horizontally and slowly rotate it clockwise until the remote control will emit a "Di" sound, indicating that horizontal calibration is complete.



③ Vertical Calibration: Hold the drone vertically and slowly rotate it clockwise until the remote control will emit a "Di" sound, and the indicator lights will flash rapidly indicating that geomagnetic calibration is successful.

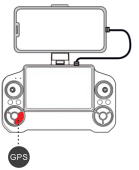


11.3 Gyroscope Calibration



Place the drone on a level surface and short press the "Gyroscope Calibration" button on the remote control (Press and hold the "Gyroscope Calibration" button to activate headless mode). The drone's indicator lights will flash rapidly and then flash slowly, while the remote control emits a "Di" sound, indicating successful calibration.

11.4 Search for GPS Signals



Place the drone on a level surface. When the screen of the remote controller shows P-GPS, the drone is acquiring GPS satellites automatically. If it shows P-OPTI, long-press the GPS button until the screen shows P-GPS. Wait until the GPS signal reaches 9 or more satellites, and the indicator lights become solid, GPS acquisition is complete and you can start flying.

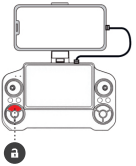
⚠ Caution

If satellite signals are weak or unavailable, long-press the GPS button to switch to Optical Flow Mode "P-OPTI".In this mode, GPS positioning is not required. The aircraft can only be flown over short distances, and functions such as Automatic Return are unavailable.

11.5 Phone Connection

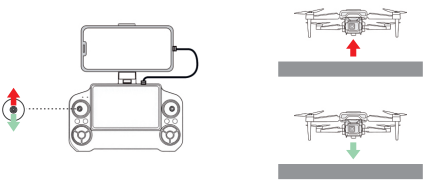
Open the APP on your phone. Allow to grant permissions. Tap Start Flight to view the camera feed synchronized with the remote controller on your phone.

11.6 Unlocking the motor



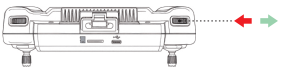
Short press the Unlock Button on the remote control to unlock and begin flying.
Note: If no operation is performed within 10 seconds, the aircraft will automatically enter the locked state.

11.7 Takeoff/landing



Note: Before takeoff, ensure the drone is in an open outdoor area and the GPS signal has locked onto at least 9 satellites.
New users must perform a calibration before the first flight. Calibration helps ensure accurate positioning, altitude measurement, and stable flight performance, especially when flying in different geographic locations.
For landing, choose an open, wind-free area with a hard, level surface. Do not land on soft or uneven surfaces such as grass, as this may prevent the drone from landing properly or stopping the motors.
When landing, pull the left control stick fully downward and keep holding it until the drone has touched the ground and the propellers have completely stopped. Then release the stick.

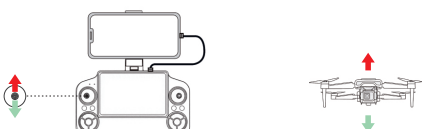
11.8 Speed Switch



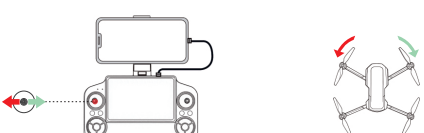
The drone takes off in Low-Speed Mode by default.
While the drone is in flight, you can adjust the speed level using the speed dial. Turn the speed dial to the right to increase the speed. When you hear two "beep" sounds, the drone has switched to High-Speed Mode. Turn the dial to the left to return to Low-Speed Mode.

Note: Low speed is recommended for beginners and indoor flight, while high speed is recommended for outdoor use and experienced pilots.

11.9 Direction Control (Joystick Operation)



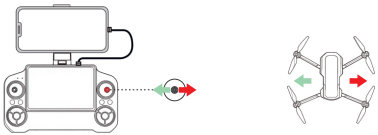
Push the left stick up to make the drone ascend.
Pull the left stick down to make the drone descend.



Push the left stick left to rotate the drone counterclockwise.
Push the left stick right to rotate the drone clockwise.



Push the right lever upwards to make the aircraft move forward.
Push the right lever downwards to make the aircraft move backward.



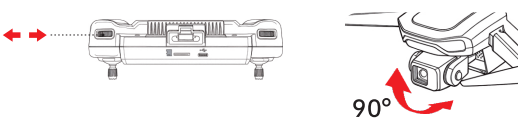
Push the right lever to the right to make the aircraft fly right.
Push the right lever to the left to make the aircraft fly left.

11.10 Hover

Release all control sticks, the drone will hover.

Note: The drone supports both GPS positioning and optical flow positioning. When GPS signal is strong, it can hover precisely outdoors. When GPS is weak or unavailable, the drone automatically switches to optical flow positioning to maintain stable hovering at low altitude.

11.11 Camera Tilt Adjustment

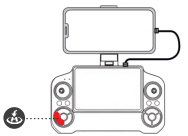


During flight, the camera angle can be adjusted using the camera adjustment dial.
Turn the dial to the left to tilt the camera upward.
Turn the dial to the right to tilt the camera downward.

11.12 Return-to-home(RTH)

When GPS is enabled and the home point has been successfully recorded, pressing the One-Key Return button will cause the aircraft to automatically return to the home point(The location where the drone first successfully acquires more than 9 satellites.).
The drone supports three types of return-to-home: One-Key RTH, Signal Lost RTH, Low Battery RTH.

11.12.1 One-key RTH



When the GPS signal is strong (9 or more satellites), you can initiate the drone's return-to-home by pressing the One-Key Return button on the remote control.
Press the One-Key Return button to start auto-return to the Home-point (the position when the drone first achieved 9 GPS satellites).The joystick can still be used to avoid obstacles during return.

11.12.2 Signal Lost RTH

If the remote controller signal is lost for more than 6 seconds, the drone will automatically return. Guiding the aircraft back to the last recorded position. Once the signal is restored, the drone will stop the automatic return at that position.

11.12.3 Low Battery RTH

Level 1 Low-Battery Return: When the drone's battery level drops to 20%, the battery icon on the remote controller display turns red, the indicator lights of the drone flashes slowly, and the remote controller will emit beeps continuously, and the aircraft automatically initiates low-battery return. The drone automatically returns to within 30m of the home point, where the user can still control the drone within this range.

Level 2 Low-Battery Return: When the battery reaches a critical level, the drone will automatically land at the home point.

⚠ Caution

- When the drone is performing a Low Battery Return, the remote controller cannot cancel the return function until the aircraft is within 30 m of the takeoff point.
- The minimum return altitude is 20 m. If the aircraft is flying below this altitude, it will first ascend to 20 m before returning. Please ensure that the return path and the airspace above the takeoff point are free of obstacles.

12.0 FLIGHT CONTROL VIA MOBILE APP

You can control the drone using only your smart phone, without the remote controller.

Note: This mode uses a Wi-Fi connection and supports only short-range control. Long-distance flight is not supported. It is recommended to control the flight using the remote controller. Simply connect your mobile phone to the remote controller with the data cable to view the live feed in real time.

12.1 Wi-Fi Connection

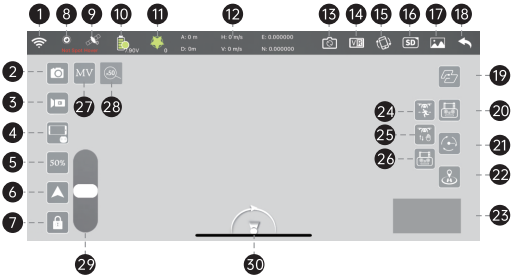
Open your phone's WLAN settings and connect to the drone's Wi-Fi network starting with "HY-GPS-"

Note: during the connection process, a pop-up may appear indicating no internet connection and suggesting whether to use mobile data or continue with Wi-Fi. Please select "Continue with Wi-Fi." The drone does not require an internet connection for flight—it only needs to connect to the Wi-Fi signal emitted by the drone. The first time you connect, authorization is required. Please select "Agree."
The drone's Wi-Fi does not provide internet and is only for flight control.

12.2 Flight Preparation

Open the app and tap "Flight Preparation." Follow the on-screen instructions to complete the gyroscope and compass calibrations in sequence. Once the calibrations are successfully completed, tap "Start Flight" to begin controlling the drone with your smartphone.

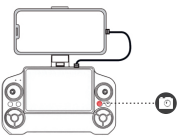
12.3 App Control Display



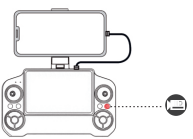
1. *WiFi*
2. *Take Photos*
3. *Record Videos*
4. *Rocker On/Off*
5. *Speed*
6. *Take-off/Landing*
7. *Unlock*
8. *Optical Flow Mode/GPS Mode*
9. *Satellite*
10. *Battery*
11. *Geomagnetic Interferece*
12. *Flight Data Display*
13. *Revolve Lens*
14. *VR*
15. *Revolve Lens*
16. *Clarity*
17. *Album*
18. *Back*
19. *Tajectory Flight*
20. *GPS Tracking/Host Tracking*
21. *Surrounding Flight*
22. *One-click Return*
23. *Switch to Map*
24. *Human Tracking*
25. *Palm Control*
26. *GPS Tracking*
27. *MV*
28. *50 Times Zoom*
29. *Camera Angle Adjustment*
30. *Aircraft Attitude Unit*

13.0 FUNCTIONS & FEATURES

13.1 Take Photo/Video



Press the button to capture a photo. The transmitter will beep once to confirm that a photo has been taken successfully.



Press the button to record a video. The transmitter will beep once to confirm that a video has been taken successfully, and press this button again to stop recording.

Note: If no TF card is installed, photos and videos will be saved to the app album.
When a TF card is inserted, photos and videos will be saved to both the app album and the TF card.

13.2 Gesture Shooting(App Required)

When performing gesture shooting, face the camera's front lens. The following gestures can activate the aircraft's automatic photo or video functions:



Make a 'V' sign toward the camera. After the gesture is recognized, the drone will start a 3-second countdown and automatically take a photo.



Stand about 2 meters in front of the aircraft camera and hold one hand open with all five fingers facing the lens.After the gesture is recognized, the aircraft will start video recording automatically. Show the same gesture again to stop recording. (The interval between two recognitions must be more than 3 seconds.)

⚠ Caution

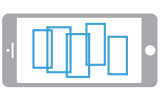
To ensure accurate gesture recognition, please follow these guidelines:

- Face the camera directly during gesture operations.
- Operate the aircraft in a well-lit environment.
- Perform gesture recognition at a distance of about 2 meters from the camera.

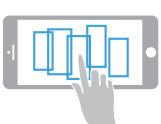
13.3 Follow Me Mode(App Required)

When Follow Me Mode is enabled, the aircraft will automatically recognize and follow the subject, keeping it in the camera frame and recording video in real time.





Blue candidate boxes will appear around detected people on the screen.



Tap on the screen to select the target person.



After the target is locked, the blue box will turn red. Make sure the red box remains centered on the screen.



When the aircraft is about 2 meters away from the target, tracking flight will start automatically.

Note: If the target is lost, please tap the target again to reselect. If no target is detected within 5 seconds, the system will automatically return to normal flight mode.When the aircraft is about 2 meters away from the target, tracking flight will start automatically.

13.4 Trajectory Flight(App Required)



In the mode, the aircraft will fly according to the selected position.

13.5 Surrounding Flight(App Required)



The aircraft flies in a circle around the current position.

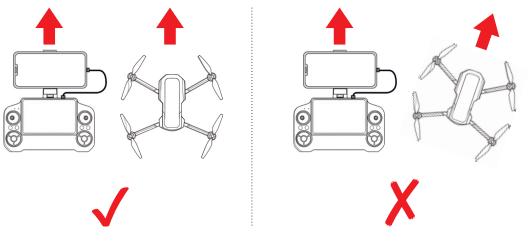
13.6 GPS Follow Mode(App Required)



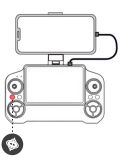
Tap the GPS Follow icon to activate GPS Follow mode. The drone will automatically follow your phone.

13.7 Headless Mode

Headless Mode is an ideal training feature for beginner pilots. It is also useful when the drone is far from the pilot and its orientation is difficult to determine. In Headless Mode, the drone will move forward, backward, left, or right according to the movement of the right joystick, regardless of the direction the drone's front is pointing.



The transmitter is aligned in **the same direction** as the drone's head when it is pairing.



Press and hold the Gyro Calibration button to activate headless mode. Press and hold the Gyro Calibration button again to exit headless mode.

14.0 TROUBLESHOOTING

NO.	PROBLEMS	SOLUTIONS
1	Unable to Take Off	In outdoor mode, complete calibration → 9+ satellites → unlock before takeoff.
2	After the aircraft is powered on, the indicator light keeps flashing rapidly.	The aircraft is in the gyroscope detection state, please place the aircraft on a stationary surface or on the ground.
3	After taking off, the aircraft can't hover, it leans a lot to one side.	Place the aircraft on a flat or level ground and re-calibrate the gyroscope. Avoid flying over reflective ground.
4	The aircraft vibrates very badly.	The blades are deformed and need to be replaced. (Propeller A needs to be installed at position A, and propeller B needs to be installed at position B. If propeller is replaced incorrectly, it can not be controlled.)
5	Unsteady flight of gale aircraft	Avoid flying in strong winds.
6	Unable to hover, keep going in circles.	The geomagnetism calibration is unsuccessful,re-calibrate the geo-magnetism.
7	The aircraft cannot be unlocked, and the indicator light flashes quickly.	The aircraft battery voltage is too low. Please fully charge the battery.
8	Drone Lost	Please ensure that the take-off environment is an open outdoor environment, and the satellite signal before take-off is greater than 9 stars.
9	Video Lag	This issue may occur due to an outdated phone operating system or insufficient memory.
10	No Camera View	Please uninstall the APP, reinstall it, and grant the required permissions.

15.0 SUPPORT & SERVICES



Please Scan the QR code or log on
(https://yikkeon.com/pages/f7-eagle-beginner-guide)to obtain:

Dounload the YIKKEON GPS App

watch the tutorial video

view the instruction manual

Please do not hesitate to contact us if you need further support.

www.yikkeon.com

yikkeon@qq.com



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