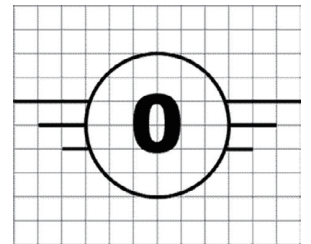


Foreword

Welcome to our drone user manual. This manual has been carefully prepared to ensure that you fully understand the operation of your drone and use it safely and effectively. In order to enhance your flying experience while adhering to all safety regulations, this tutorial is divided into three detailed sections covering everything from basic safety knowledge to flying techniques.

Features and important information about the A19 PRO drone

1. Drone weight: 166 grams; Maximum dimensions: 29 × 29 × 7.8 cm; Frequency band: 2420–2460 MHz
2. Operation mode: Manual flight control; Remote controller and app control
3. Maximum take-off mass (MTOM): 216 grams (including battery propellers and obstacle avoidance)
4. Maximum flight speed: 9.5 metres per second
5. Maximum flight altitude: 120 metres
6. Drone category: C0
7. Beyond its own battery propellers and obstacle avoidance, the drone lacks the capacity to carry additional items.
8. Drone remote control equipment and software: Equipment: Remote controller / Software: HF UFO.
9. Description of the drone and drone behaviour when the data link is lost: When the data link is lost, the drone will land vertically on the ground.
10. Operation Restrictions: Avoid outdoor operation under strong wind or thunderstorm conditions, and make sure the night flight is within visual range.
11. This drone is only suitable for operation by individuals aged 8 and above. To ensure flight safety, please avoid flying near airports, motorways, railway stations, underground stations and densely populated urban areas.



Part I: Security Guidelines

Before you start using your drone, it is critical to know all safety-related information. This section provides basic safety rules and guidelines to prevent potential injury or damage. Following these basic guidelines will not only ensure the safety of you and those around you, but also protect the drone from damage.

Part II: Introduction to Product Components

To familiarise you with your drone, this chapter details the names, functions and operations of the various components. By learning the basics of your product's components you can quickly diagnose problems as they occur and make more effective use of your drone's diverse capabilities.

Part III: Flight Tutorial

This section provides a comprehensive overview of basic setup steps and operation techniques designed to help beginners easily master drone enablement and basic flight manoeuvres. Once you have mastered the basic operation of your drone, this section will further guide you in enhancing your flight skills. Content includes detailed flight procedures, operating tips, use of advanced features, and strategies for potential emergencies. Whether you are just starting out or are an experienced pilot, these in-depth tutorials will provide valuable guidance and advice.

We urge you to read each section of this manual carefully to gain a full understanding of all of the drone's features and safety measures. We want you to find fun and safety in using your drone. Thank you for choosing our products and enjoy your flight!

Safety Guidelines

Safety Guidance Notes

Please keep the small parts of the aircraft out of reach of children.

This aircraft is very powerful. During the first flight, to prevent the aircraft from ascending too quickly and causing unnecessary collisions or injuries, please push the left control stick slowly.

When ending the flight, please turn off the remote control power switch first, then turn off the aircraft power switch.

Do not place the aircraft battery in high-temperature environments or near flammable or explosive materials.

To ensure safety and prevent injury, keep the aircraft at least 4.5 metres away from people and animals.

This aircraft is suitable for persons aged 8 years and older, and must be operated within the operator's (instructor's) line of sight.

If the remote control uses non-rechargeable batteries, do not recharge them. The aircraft must be used with the batteries supplied at the time of purchase.

When the aircraft is not in use for an extended period, remove the batteries from the aircraft and remote control.

Do not cause a short circuit during charging.

If the aircraft is not used for more than 10 days, discharge the battery to 40-50% (this is equivalent to half the flight time when fully charged), which will significantly extend the battery's lifespan.

To prevent injury, maintain a safe distance from rotating propellers.

To comply with national aviation radio (station) electromagnetic environment regulations, the use of remote control radios is prohibited within 5,000 metres of an airport runway. All operators must also adhere to the broadcasting regulations established by the relevant regulatory authorities, including flight time and restricted areas.

Assemble the drone under adult supervision.

Operators are responsible for safe flight and maintaining safe distances. Do not fly over crowds (more than 12 people).

Non-rechargeable batteries must not be charged. Rechargeable batteries should be charged under adult supervision.

Different types of batteries and new and old batteries must not be mixed.

Batteries must be installed with the correct polarity.

Used batteries must be removed from the toy.

Power terminals must not be short-circuited.

Safety Guidelines

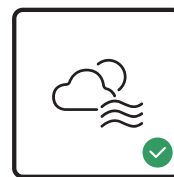
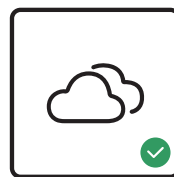
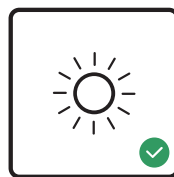
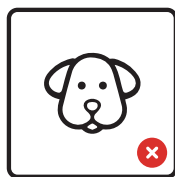
Flight environment requirements:

Indoor flying:

Please choose a spacious indoor area and make sure there are no obstacles, people or pets around for flying. Please ensure that babies and young children are kept at a safe distance and avoid any physical contact with the drone to prevent unnecessary accidents.

Outdoor flying:

Please choose a sunny, windless or breezy day. Choose a location free of obstacles .. crowds, pets, passersby, high walls and trees. Stay especially away from heat sources, electrical wires or electronic power sources to avoid collisions, entanglements, fires, electric shocks and other potentially catastrophic accidents.



⚠ Important matters:

1. Keep the drone in line of sight during flight and avoid obstacles, such as power lines, trees, and crowds.
2. Do not fly in extreme weather conditions, including extreme cold, extreme heat, strong winds, heavy rain, etc.
3. Do not fly near high-intensity radiation fields (such as high-power radar or television broadcast antenna transmitters).

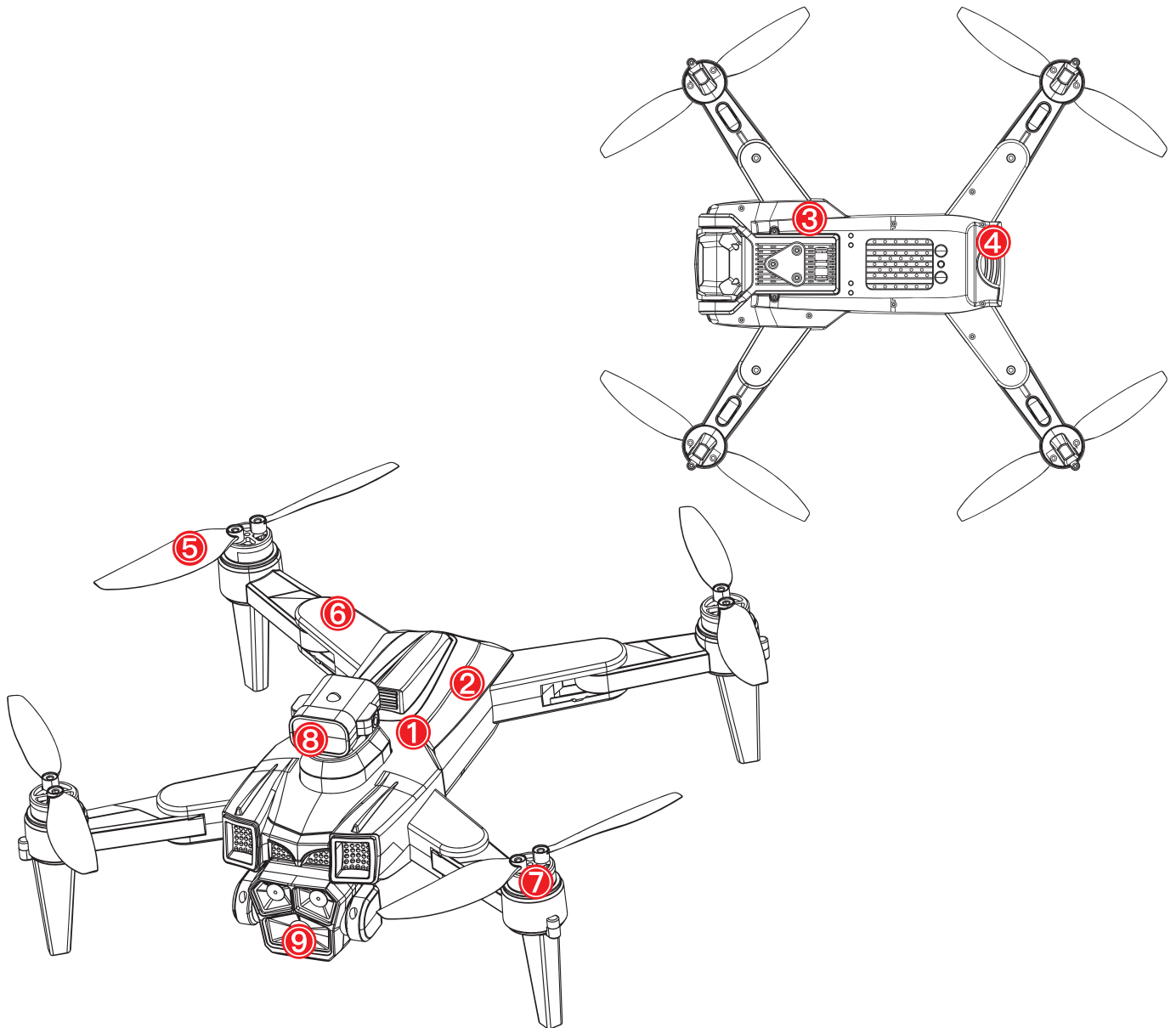


Pre-Flight Notes:

1. To avoid damage or loss of the drone due to improper operation, beginners are advised to carefully read the manual and watch the instructional videos before flying. Keep the flight distance within 98 feet/30 metres. Only attempt high-altitude flights after three days of low-altitude practice.
2. Gyroscope calibration must be performed before each takeoff. Failure to do so may result in unstable flight or loss of control.
3. To ensure a stable connection between the app and the drone during flight (Wi-Fi connection), it is recommended to disable the option in your phone's Wi-Fi settings that automatically connects to nearby strong Wi-Fi networks.
4. Ensure that the batteries in the remote controller are installed with the correct polarity. Avoid using high-voltage batteries.
5. When operating using the remote controller:
 - If the app is not connected, the camera function will be unavailable, but all flight functions on the remote controller will remain operational.
 - If the app is connected, the camera function can be used, and the app can assist in real-time viewing of the camera feed.
6. If you plan to operate the drone via the app:
 - You must first disconnect the remote controller; otherwise, the app control functions will be disabled.
 - App control functions include basic flight direction control and intelligent flight features such as palm follow, person follow, trajectory flight, and gravity control.
 - It is not recommended to use the app as a substitute for the remote controller to operate the drone. The flexibility of app control is inferior to that of the remote controller, and the effective control range of the app is significantly shorter than that of the remote controller.
7. The maximum connection distance between the remote controller and the drone is 230 feet/60 metres. Do not fly beyond this range, as this may cause the drone to lose control and crash or become lost.
8. The maximum connection distance between the app and the drone (i.e., the drone's Wi-Fi data transmission range) is 98 feet/30 metres. Exceeding this distance may result in issues receiving photos, videos, etc.
9. Keep the drone within your line of sight during flight.
10. When the drone takes off, maintain a safe distance (recommended distance: over 6.5 feet/2 metres) and avoid touching the rotating propellers during flight; loose clothing or hair may get caught in the propellers, so please avoid this; do not fly near your face.

Product Component Introduction

Aircraft components



① Power switch

② Upper cover

③ Lower cover

④ Battery

⑤ Propeller blades

⑥ Arm

⑦ Motor

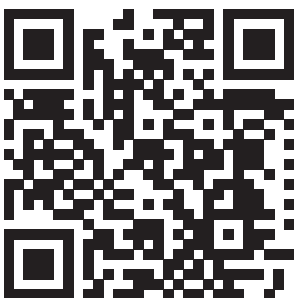
⑧ Obstacle avoidance sensor

⑨ Camera

**This drone is an aircraft.
Aviation law applies.**

As a drone pilot, you are responsible for safely controlling your drone.

Before flying, as a drone pilot. You must read and follow the manufacturer's instructions.



Let's see where you
can fly

www.easa.europa.eu/drones/NAA



Violations of the
law shall be
punished by law.



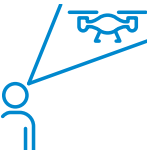
DO



Ensure that you have adequate insurance.



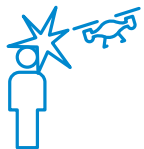
Check that there are no no-fly zones or restrictions in the area to which you are flying.



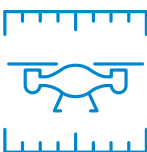
Always keep the drone in sight



Keep a safe distance between the drone and people, animals and other aircraft

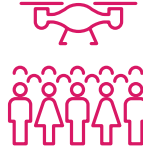


If your drone is involved in an accident that causes serious or fatal injury to a person or affects a manned aircraft, notify your national aviation authority immediately

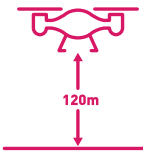


Operate the drone within the range specified in the manufacturer's instructions.

DO NOT



Don't fly over a lot of people.



Don't fly at heights higher than 120 metres above the ground



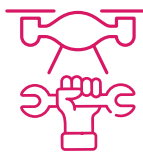
Don't fly in flying planes, airports, heliports or emergency zones



Respect the privacy of others.



Do not use your drone to transport hazardous materials or drop objects



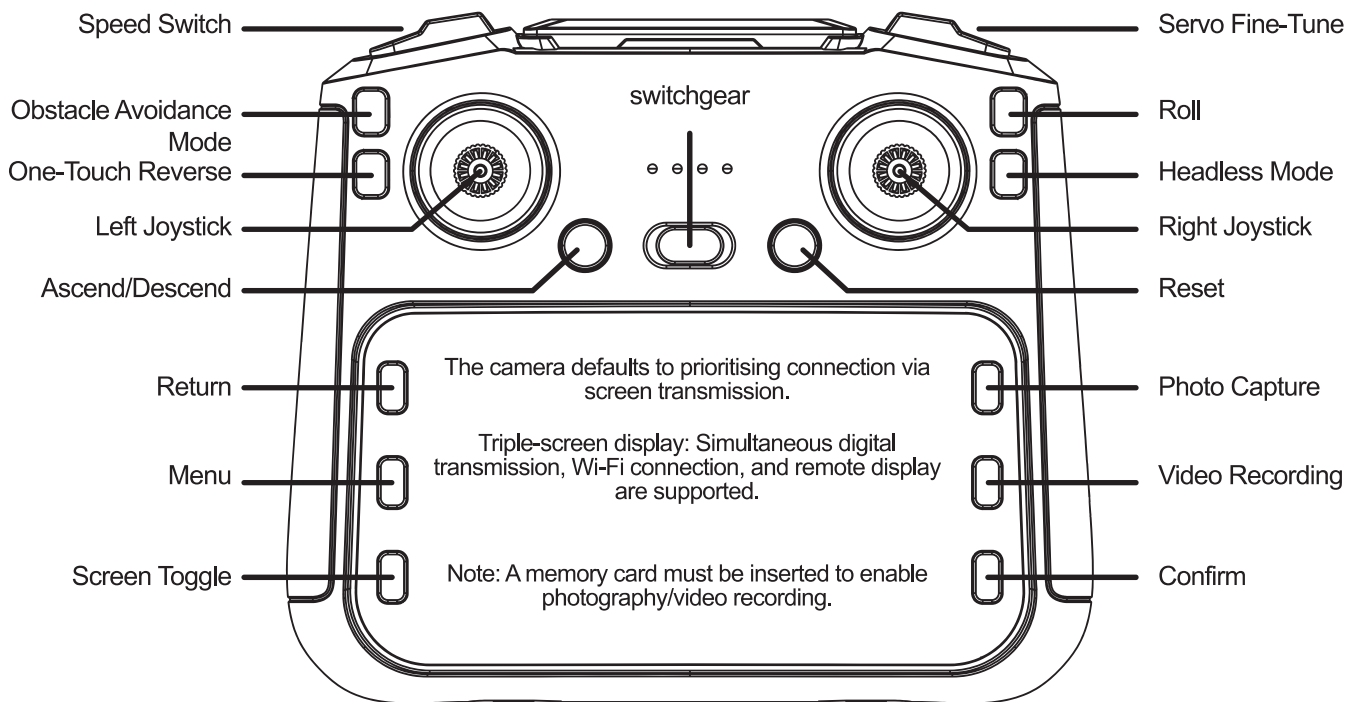
Do not alter your drone. Only upload software recommended by the drone manufacturer

A19 PRO Quadcopter

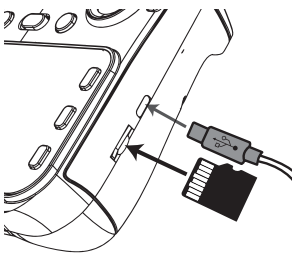
Drone User Manual

Version: V1.1

Remote Control Function Guide



⚠ Note: An SD card must be inserted to take photographs or record video.



Remote control charging

1. Insert the charging cable into the charging port.
2. Plug the other end of the USB charging cable into your computer's USB port. The red light (adjacent to the remote control's charging port) will illuminate to indicate charging has commenced. When fully charged, the light will extinguish.

Insert the memory card to store photographs and videos. Upon completing the flight, use the supplied card reader to access the captured content from the memory card on your computer.

Please read the instructions thoroughly before use (pay particular attention to the details and warnings), and keep this manual for future reference.

Battery Installation and Charging Instructions for Aerial Vehicles

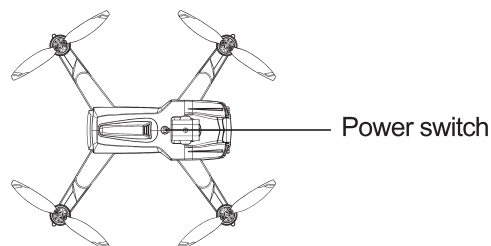
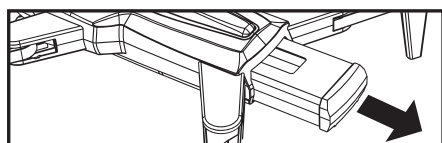
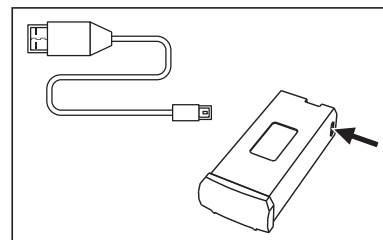
Aircraft Battery Charging

1. Charging via USB cable:

Connect the USB charging port to the aircraft's battery plug. The other end may be connected to a computer's USB port to charge the battery. The indicator light illuminates during charging and turns off when fully charged.

2. Connecting to the aircraft's power supply:

Insert the fully charged battery into the aircraft's battery compartment. After connection, switch on the aircraft's power supply. The aircraft's lights will then illuminate.

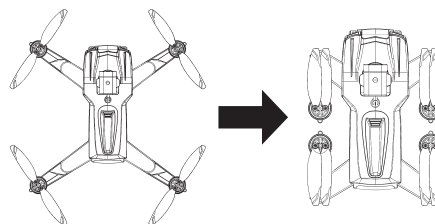


Aircraft installation

1. Demonstration of folding functionality

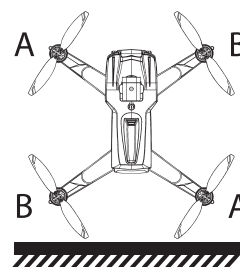
1. Folding Function Demonstration

To fold, first fold the rear extension arm, then fold the front extension arm. To unfold, perform the reverse sequence.



2. Installation of aircraft propeller blades

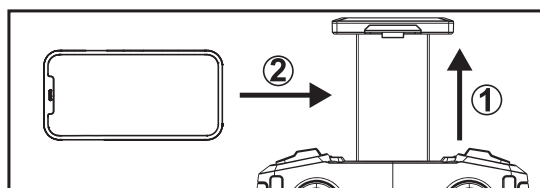
Please install the propeller in the correct orientation. Position the propeller marked with symbol A onto the outriggers at the upper left and lower right corners of the aircraft. Similarly, install the propeller marked with symbol B onto the outriggers at the upper right and lower left corners of the aircraft. During installation, align the blade clamps with the square fittings on the gear assembly. Once properly seated, tighten the screws securely!



Remote control operation

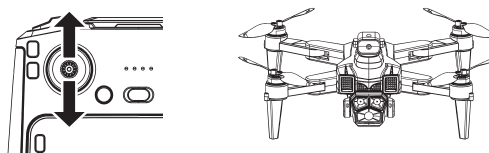
1. Mobile phone holder

Pull out the top bracket of the remote control to secure your mobile phone.



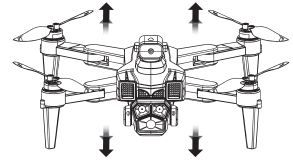
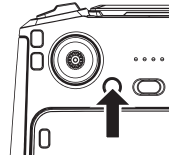
2.2.4 GHz frequency pairing

Switch on the aircraft's power switch and place it on level ground. The aircraft's indicator light will now flash. Switch on the remote control's power switch; the buzzer will emit a 'beep' sound! The aircraft's indicator light will remain steadily lit, indicating successful frequency pairing. You are now ready for take-off!



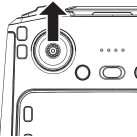
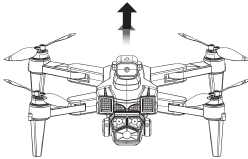
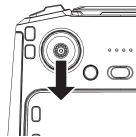
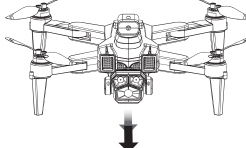
3. One-touch take-off and one-touch landing

Note: This product utilises a barometric altimeter for altitude measurement. Due to factors such as environmental temperature variations, slight fluctuations in altitude may occur automatically during initial flight or when operating at low voltage levels. This is entirely normal.

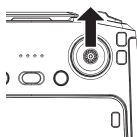
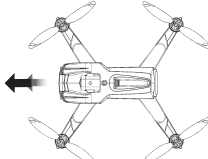
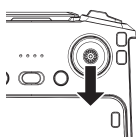
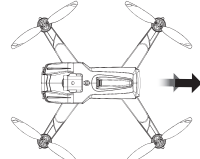


4. Flight Control

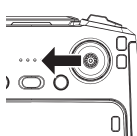
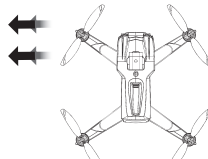
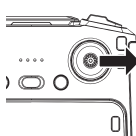
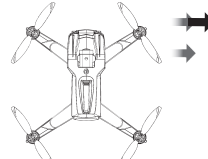
A. Throttle (left control stick)

Push the left control stick upwards 	The aircraft ascends 	Push the left control stick downwards 	The aircraft is descending. 
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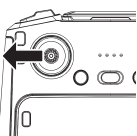
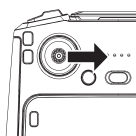
B. Forward/Reverse (Right Control Lever) (The camera-equipped side faces forwards)

Push the right control stick upwards. 	The aircraft advances 	Push the right control stick downwards 	The aircraft retreated. 
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C. Left and Right Side Flights

Push the right control stick to the left 	The aircraft is flying to the left. 	Push the right control stick to the right 	The aircraft is flying to the right. 
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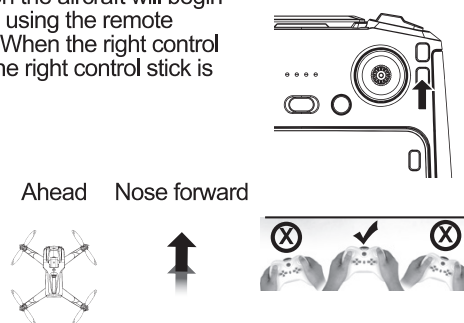
D. Left and right turns (with the camera facing forwards)

Push the left control stick to the left 	The aircraft is turning left. 	Push the left control stick to the right 	The aircraft is turning right. 
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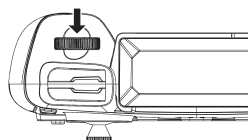
Direction Definition and Pattern Selection in Headless Mode

When briefly pressing the button (as shown) to switch to headless mode, the lights on the aircraft will begin to flash. The aircraft will abandon its own front, rear, left and right orientation, instead using the remote controller as a reference point to redefine its front, rear, left and right. For example: - When the right control stick is pushed forward, the aircraft will fly away from the remote controller. - When the right control stick is pulled back, the aircraft will fly towards the remote controller.

1. Defining direction prior to take-off: Position the aircraft's forward direction directly in front of you (with the camera-facing side as the front). Align the remote control directly with the aircraft's tail section, then press the one-touch take-off button to complete the heading-free mode direction definition for this flight.
2. During flight, press the heading-free mode button. The remote control will emit two 'beep, beep' sounds, and the aircraft's lights will flash rapidly, indicating entry into heading-free mode.

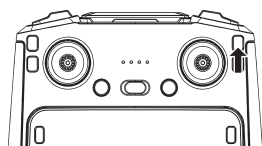


Speed selection

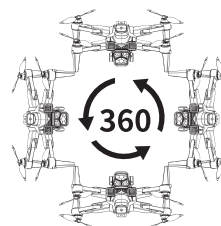


Turn the roller to the left; the remote control emits a single "beep" and switches to Level 1. Turn the roller to the right; the remote control emits two "beeps" and switches to Level 2. Turn the roller to the right; the remote control emits three "beeps" and switches to Level 3. The unit defaults to low gear upon start-up.

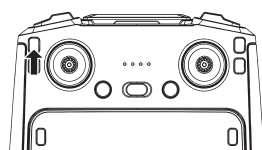
360-degree roll



The aircraft can perform a special 360-degree roll manoeuvre mid-air. First, fly the aircraft to a height of 2 to 3 metres and press the right button on the remote control: the remote will emit a 'beep, beep, beep' sound. At this point, simply give the right joystick on the remote a slight push in any direction, and the aircraft will execute a 360-degree roll in that direction.

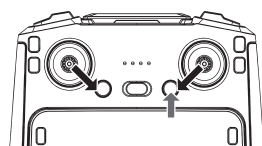


Obstacle avoidance switch



After powering on the aircraft, briefly press the button (as shown) to activate obstacle avoidance mode. The aircraft's eye lights will begin to flash slowly, indicating the mode is operational. To deactivate, press and hold the button again (at which point the eye lights will cease flashing).

Horizontal reset



When the aircraft exhibits persistent drift in a particular direction or spins in place while airborne, utilise the horizontal calibration function to correct its orientation. Position the aircraft on a level surface, then either push the directional control stick on the remote control fully inwards or press the reset button on the remote. Upon doing so, the remote will emit a beep and the aircraft's lights will flash. Wait approximately three seconds until the aircraft's lights remain steadily illuminated, indicating calibration is complete.

Problem-Solving Guide

Problem	Reason	Method of treatment
Upon connecting the aircraft battery, the indicator light on the aircraft continues to flash intermittently, with no operational response.	The remote control has failed to synchronise with the aircraft.	Please repeat the remote control pairing procedure with the aircraft.
Upon connecting the aircraft battery, the aircraft showed no response whatsoever.	1. Check whether the remote control and aircraft are powered on 2. Check whether the remote control and aircraft batteries are in a low-power state 3. Check whether the positive and negative terminals of the battery are making poor contact	1. Switch on the remote control and insert the aircraft battery to activate power. 2. Use a fully charged battery. 3. Reinsert the battery and verify that the battery terminals are making proper contact.
When the throttle stick is pushed forward, the main motor fails to rotate and the indicator lights on the aircraft begin to flash.	The aircraft's lithium polymer battery is running low on power.	Charge the battery until it is fully charged, then replace it with another fully charged battery.
The aircraft's main rotor continues to rotate but is unable to take off.	1. Main rotor deformation 2. Insufficient aircraft battery charge	1. Replace the main rotor 2. Charge the battery or replace it with another fully charged battery
The aircraft was shaking violently.	Main rotor deformation	Replace the main rotor
The aircraft will still move forwards or backwards.	Gyroscope centre point is incorrect	The remote control can be set to automatic calibration mode or restarted to recalibrate the frequency.
After the aircraft crashed, it lost the ability to level off and could not regain flight.	Gyroscope centre point is incorrect	The remote control can be set to automatic calibration mode or restarted to recalibrate the frequency.

A19 PRO Drone Manual

Why do drones go out of control when using a remote control?

1. Operational Errors.

A. The operator may accidentally press the wrong buttons or may not yet be familiar with the directional control of the joystick, causing the drone to behave differently than expected.

B. The operator may confuse the two modes of directional control of the drone, i.e. normal mode and headless mode.

2. Signal interference: If there are many wireless signals or signals from other devices in the vicinity, it may interfere with the connection between the remote control and the drone.

3. Low Battery: Low battery of the remote control or drone may affect their performance, resulting in ineffective control or delayed response.

4. Excessive distance: If the drone flies out of the maximum control range of the remote control, the connection with the remote control may be lost.

5. Environmental factors: Strong winds or other environmental factors may affect the drone's flight path, making it appear to be out of control.

6. Hardware failure: Some components of the remote control or drone may malfunction or become damaged, causing them to not work properly.

⚠ If you are experiencing this situation, it is recommended to find a safe place for an emergency landing and then troubleshoot and deal with it. If possible, consider flying again in an area with no signal interference and always make sure the batteries in the remote control and drone are fully charged.

General information

1. Parts List (including certified components)

- Model: A19 PRO Propeller: Weight (2 pairs): 6 grams; Dimensions: 66 × 16.85 × 6.74 mm; Maximum RPM: 16,650 revolutions per minute

- Model: A19 PRO Battery (Model: ZN 112558); Weight (single unit): 40.6 grams; Dimensions: 58 × 25 × 1.1 mm

- Obstacle Avoidance System (Model: A19 PRO); Weight: 10.8 grams; Dimensions: 32.2 × 32.2 × 42.07 mm

2. Drone Combination List:

- Combination 1: A19 PRO, A19 PRO Remote Controller

Remote control auto pairing, manual mode.

- Combination 2: A19 PRO, Mobile App (HF UFO)

App Pairing: Auto pairing with drone after clicking app control button, manual mode.

- Combination 3: A19 PRO, A19 PRO Remote Controller, Mobile APP (HF UFO)

Mobile phone can only be used for video display

App Pairing: Auto pairing with drone after clicking app control button, manual mode.

3. Differentiation by similar products of the same manufacturer:

- Similar products made by the same manufacturer can be distinguished by the product model and exterior colour.

MTOM Statement

The maximum take-off mass (MTOM) of the A19 PRO, including the aircraft, propeller, battery and obstacle avoidance, totals 216 grams conforming to category C0 standards. There are no additional loads.

To ensure that your A19 PRO UAV is C0 compliant, it is critical to follow the maximum takeoff weight regulations. Users must follow the following instructions.

- Users are prohibited from carrying accessories other than the list of items.

- Compliance: Ensure that all local and international aviation regulations are followed when operating the drone to avoid legal liability and potential safety hazards.

Equipment for remote control of drones

1. Remote Control Model: A19 PRO

2. Application: HF UFO

- HW aircraft: V1.1

- Aircraft Firmware: V1.1

- Remote Controller Firmware: V1.1

- Remote Controller Hardware: V1.1

- The product comes with an "Application Manual" and is compatible with Android 6.0 and above and iOS 9.0 and above.

3. Reminder Notes - Low Battery Alert: Emits a 'beep beep beep' sound as a warning. Automatic Frequency Pairing:

Emits a single 'beep' sound to indicate successful pairing. Headless Mode: Press the headless mode button on the remote control briefly; a continuous 'beep' sound indicates entry into headless mode. Speed Mode Switching: Press the speed mode button; a single "beep" sound indicates Level 1, two 'beep beep' sounds indicate Level 2, and three 'beep beep beep' sounds indicate Level 3. - Remote Control Activation: When the remote control is turned on, it emits two quick 'beep beep' sounds.

A19 PRO Drone Manual

Loss of command and control link:

1. The A19 PRO UAV can fly at a maximum altitude of up to 120 metres above the take-off point. When the UAV reaches this altitude, the system automatically prevents it from ascending further, but it can still be operated in other directions. During flight, environmental factors or signal interference may cause the UAV to lose control and descend uncontrollably, making it difficult for the pilot to effectively control the UAV's ascent or other manoeuvres, thus increasing flight safety risks. To ensure safety and prevent loss of the drone, users should fully understand and comply with the 120 metre altitude limit before operation. Please pay attention to the surrounding environment and fly in areas with strong signals to avoid flight risks.

2. Drone response when the remote control is disconnected.

-The drone's indicator light will start flashing, then the drone will slowly descend.

Operator Health Precautions

1. When operating the drone, ensure that the operator (you) is sober and alert and not under the influence of alcohol, drugs or other substances. In addition, avoid flying if you feel dizzy, fatigued, nauseous or any other health condition that may affect the safety of the operation.

Ground Services - Related Guidelines

1. Safe handling of energy storage (batteries)

-Ensure correct polarity when installing and replacing batteries and avoid using damaged or incompatible batteries.

-Use the original charging cable when charging, avoid charging near flammable materials, and ensure that the charging ambient temperature is between 0 °C and 40 °C.

-Disconnect the power supply immediately after charging to prevent overcharging.

-If the battery swells, leaks or other abnormalities, stop using it and deal with it promptly.

2. Cleaning and Maintenance.

-Clean the exterior of the drone and the propellers regularly to ensure that there is no dust, dirt or foreign matter on the device.

-Check every part of the drone, especially the moving parts and connection points, to make sure there is no loss or damage.

3. Pre-takeoff calibration.

-Make sure the drone is placed on a level surface before switching on the drone and remote control.

-Follow the steps in the manual for one-button calibration and frequency pairing to ensure the drone's flight attitude is accurate.

4. Use of Plugs and Protective Covers.

-Protect the electronic interface and plug from dust and moisture when using and storing the remote control and other accessories.

5. Selection of flight environment.

-Select an open and barrier-free environment for flight, avoid flying in crowded or animal-infested areas.

-Avoid flying in extreme weather conditions such as strong winds, rain, snow or extreme temperatures.

Transport and storage of drones, equipment for remote control of drones, and batteries.

1. Packaging of the drone and remote control.

-Use the original packing materials or equivalent protective materials to pack the drone and remote control to prevent shock or pressure damage during transport.

-Ensure that each component of the drone and remote control is securely fastened to avoid damage caused by movement.

2. Safe transport of batteries.

-Remove the batteries from the drone and store them separately in fire and explosion proof packaging.

-Avoid exposing the battery to extreme temperatures or direct sunlight to prevent overheating.

-Obey local transport regulations, especially regarding lithium batteries.

3. Storage environment.

-Store the drone and remote control in a dry, clean and temperature-appropriate environment, avoid humidity or extreme temperature conditions.

-The storage area should be away from any potential heat sources such as heaters or direct sunlight to prevent material deterioration or equipment damage.

4. Long-term battery storage.

-If the battery is not to be used for a longer period of time, keep the battery at approximately 50 per cent and avoid fully charging or completely discharging it.

-Check the condition of the stored batteries regularly, charging and discharging them at least once every three months to keep them active and safe.

5. Inspection and Maintenance.

-Check the stored drone and remote control regularly for any signs of physical damage or abnormal functioning.

-Make sure all connections and interfaces are clean and dust-free to prevent corrosion or poor contact during long-term storage.

A19 PRO Drone Manual

Post-flight operation

-To ensure the safety and performance of the A19 PRO UAV after each flight, the operator must perform a thorough visual inspection including checking the battery and all critical components. The detailed inspection steps are as follows.

1. Battery Inspection.

- Visual Inspection: Remove the battery and carefully inspect the battery case for signs of damage, distortion, leakage or bulging.
- Touch Inspection: Gently touch the surface of the battery to check for abnormal temperatures (too hot or too cold).
- Connector Check: Check the battery connectors and wires to make sure they are intact and show no signs of looseness or poor contact.
- Battery level check: Use the battery level detector or the drone's built-in power display to check if the remaining power is normal.

2. Body Inspection.

- Appearance Inspection: Visually inspect the drone's fuselage for cracks, scratches, or other physical damage, especially in the aircraft, landing gear, and propeller mounting areas.
- Structural Integrity: Gently shake the drone to check for loose parts or unusual sounds to ensure that the drone is structurally sound.
- Sensor and Camera Inspection: Inspect the surface of the drone's sensors and cameras to ensure that they are clean and free of scratches or other damage to ensure proper operation.

3. Propeller Inspection.

- Exterior Inspection: Check the propellers for cracks, bends or other damage. If damaged, replace the propeller immediately.
- Installation check: Make sure the propeller is firmly installed and not loose. Check if the propeller locking mechanism is working properly.

4. Motor Inspection.

- Exterior Inspection: Visually inspect the motor casing for any signs of damage or deformation.
- Rotation Inspection: Gently rotate each motor manually to check if it runs smoothly without any jamming or abnormal sound.

5. Wiring and Connector Inspection: -Visual Inspection: Check for any signs of damage or deformation to the motor housing.

- Visual Inspection: Check all internal and external wiring and connectors of the drone to make sure there are no breaks, damage or looseness.

- Connector check: Make sure all connectors are firmly connected and there is no sign of looseness or poor contact.

6. Remote Control Inspection.

- Appearance check: Check the remote control case for damage or cracks.
- Functionality check: Open the remote control and check if all buttons and levers are working properly to ensure proper connection with the drone.

Summary:

By following the detailed inspection steps above, operators can ensure the safety and performance of the MX08 drone after every flight.

Regular visual inspections help to identify potential problems early so that maintenance and repairs can be carried out in a timely manner, ultimately extending the life of the drone.

Related restrictions:

1. Speed Limit

- Level 3 : 9.5m/s
- Level 2 : 7.5m/s
- Level 1 : 4.5m/s

2. Specific Flight Restrictions -Horizontal Distance from Buildings.

- To ensure safe operation of the A19 PRO UAV during flight and to maintain a safe distance 20m from buildings.
- The drone should always be kept at least 20 metres horizontally away from buildings during flight, unless specifically authorised to do so.
- When flying in urban or densely populated areas, extra care should be taken to maintain a greater safety distance to avoid collision or interference with buildings.

3. Environmental Limitations -Wind Speed Limitations for Operation.

- Wind resistance: 3.5 metres/sec.

4. Environmental Limitations: -Height for operation, transport and storage.

4.1. Operation.

- Maximum take-off altitude (120 metres)

4.2. Storage: -UAV should be stored at appropriate altitude, avoid storing in extremely high or low altitude areas.

- When storing the UAV at high altitude, the temperature and pressure of the storage environment should be controlled to ensure that the UAV components are not damaged due to pressure changes.

4.3. Transport.

- During transport, especially when transported in the air, relevant height restrictions should be observed and complied with to ensure the safety of the UAV during transport at high altitude.

A19 PRO Drone Manual

5.Environmental restrictions:-Humidity for operation, transport and storage.

5.1.Operation.

-Avoid operating the UAV in high humidity (more than 80% relative humidity) or low humidity (less than 20% relative humidity) environments.

-Avoid flying in fog, drizzle, hail or snow to prevent the drone from getting wet or iced up.

-Immediately after flying, check all parts of the drone for moisture or condensation.If necessary, wipe with a clean, soft cloth.

5.2.Storage.

-Make sure that all electronic components and batteries of the drone are well sealed to prevent moisture from entering.

-Store the drone in a dry, well-ventilated environment, avoid storing it in a humid place or near a water source.

-The relative humidity of the storage environment should be maintained between 40% and 60%.If necessary, use de-machine or desiccant to control the humidity.

5.3.Transport.

-Store the UAV and its accessories in moisture-proof packing materials such as moisture-proof bags or sealed containers during transport.

6.Environmental Limitations:- Other (thunderstorms, bird flocks, sandstorms).

-Avoid operating the UAV under special environmental conditions such as thunderstorms, flocks of birds or sandstorms to ensure the safety and reliability of the UAS.

According to the European Union Regulation (EU) 2019/947, operators should be fully aware of the following main risks and take the necessary measures to ensure safety

1. Ensure the safety of the UAS during maintenance operations.

1.1 Regular Inspection.

-Regularly inspect and test key components of the UAS, such as batteries, motors, propellers, and control systems.

-Perform basic checks before and after each flight to ensure the UAV is in good working condition.

1.2 Battery Maintenance.

-Check batteries regularly for signs of expansion, leakage, or damage and replace any faulty batteries promptly.

-Avoid overcharging or overdischarging the battery and follow the manufacturer's charging guidelines.

1.3 Hardware Maintenance.

-Check and tighten all screws and connectors to ensure structural stability of the drone.

-Clean the exterior and sensors of the UAV to prevent dust and debris from affecting its performance.

2.Ensuring the safety of the UAS during transport: -The UAS and its accessories should be packed in a safe place.

-The UAS and its accessories should be packaged in strong, appropriate protective packaging to prevent mechanical damage during transport

-Use shock-absorbing materials (e.g. foam or bubble wrap) inside the packaging to reduce vibrations and shocks that could damage the UAS.

-Ensure that batteries are stored safely and transported separately from the drone to prevent short-circuiting or overheating during transport.Avoid transporting the drone and battery in extreme temperature conditions to prevent damage due to high or low temperatures.

-Prevent the drone from coming into contact with moisture or water to prevent short-circuiting or corrosion.

3. Ensure the safety of the UAS during shelf storage: -UAS should be stored in a dry and well-ventilated environment.

-UAS should be stored in a dry, well-ventilated environment, avoiding humidity, high temperature and direct sunlight.

-Storage areas should be kept away from flammable and explosive materials and chemicals.

-Batteries should be stored separately from the UAS to avoid over-discharging or charging.

-Charge the battery to approximately 50% before long-term storage to extend its life.

A19 PRO Drone Manual

Security instructions

Ensuring software integrity and security is critical when using the A19 PRO drone. The following are safety instructions regarding software integrity.

- Download only from official sources: Ensure that all videos, images and software updates are downloaded only from official or trusted sources, such as the manufacturer's official website or a certified app shop.
- Avoid third-party software: Avoid downloading any software or updates from unknown sources or unverified third-party websites to prevent malware infections and data leaks.

Information relating to the right to privacy

-When operating a drone, special care must be taken to protect the privacy of individuals who may be accidentally captured by the camera. The following are guidelines and requirements for privacy protection.

1. Legal Operation.

-Ensure compliance with local laws and regulations when using the drone for video recording or filming, especially when operating in public places or on private property.

-Familiarise yourself with and comply with relevant privacy laws, including obtaining any necessary permits or authorisations, prior to operation.

2. Informed Consent.

-Inform the public in advance of drone operations where individuals may be filmed, such as by posting a notice or posting a notice on a website advising of the time and area of the drone operation.

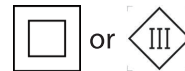
-Avoiding situations where permission has not been obtained, especially in private settings or at private events.

Caveats:

1. This product must be assembled by an adult and used under his/her direct supervision.

2. Short-circuiting the power terminals is prohibited. The transformer or battery charger should be inspected periodically to ensure that there is no damage to the power cord, plug, case or other components. If damage is found, it must be repaired before use.

3. This toy can only be connected to devices with any of the following markings:



4. Keep the packaging and the instructions: both contain important information and should be kept in a safe place for reference.

5. The toy shall be used with caution since skill is required in order to control the flight and avoid collisions with the user, objects or third parties.

6. Precautions to be observed such as "Do not touch the rotating rotor, avoid loose clothing or hair that could be caught in the rotor, do not fly near the face".

7. Advice to adult supervisors to teach children how to safely fly and control the toy.

APP User Guide

1.install APP in Your Mobile Phone

Please scan the below QR code to download APP according to your phone system.

When the app is updated, you need to scan the QR code again to download.



ios

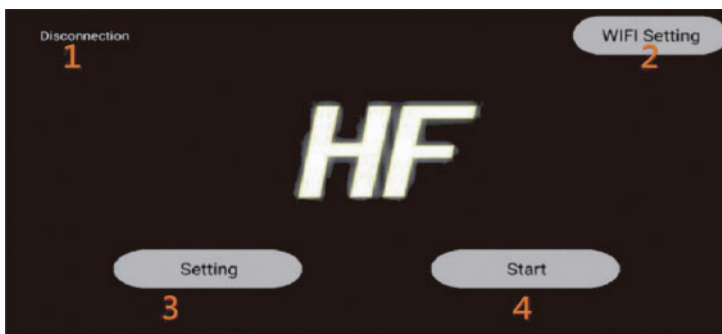


Android

2.Connect Devices

connect or not,if not,please manually connect the hotspot,there is no password.After starting your device,please check whether the hotspot called " HF XX*** "

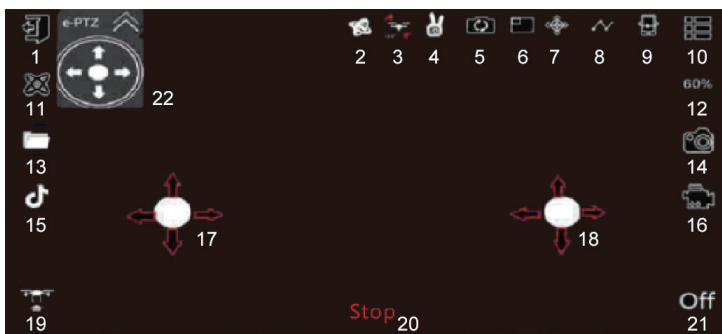
3.First Interface



- 1.Connect the WIFI hotspot name
- 2.WIFISSET
- 3.Enter the setting mode
- 4.Start

4.Start Interface

4.1 Function:



1. Exit
2. Gravity mode
3. Flip
4. Gesture control
(Photo; 🖐 Video 🖐 or 🖐)
5. Switch camera
6. Picture-in-picture
7. Headless mode
8. Flip

- | | | |
|---------------------------------------|--------------------------|--------------------------|
| 9. Flip Preview | 14. Photography | 19. Take-off and Landing |
| 10. Menu | 15. Entertainment | 20. Emergency Stop |
| 11. Calibration | 16. Video | 21. Swing Arm Open |
| 12. Speed (including: 30%, 60%, 100%) | 17. Left remote control | 22. Virtual Head Control |
| 13. Album | 18. Right remote control | |

APP User Guide

4.2 Gesture and Vision Mode

Click gesture button, the system will automatically recognize different gesture to take pics or videos.

Gesture as below:

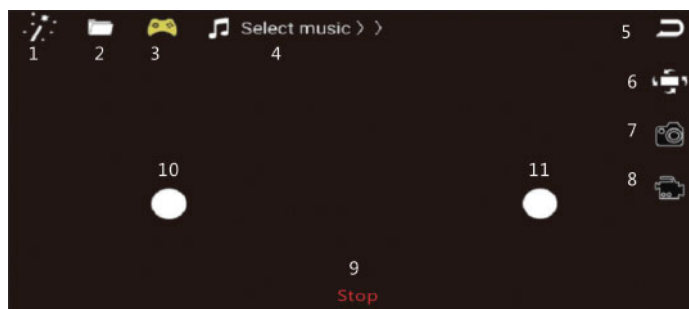
- A  “Yeah” shows taking pics, in the range of 1m-4m in front of the camera of the drone, one-handed flat.
After the gesture is successfully recognized, then countdown 3, 2, 1 and begin to take pics
- B  The open hand gesture should be made within a range of 1m to 4m in front of the drone camera, displaying the video, with all five fingers spread apart using one hand. Once the gesture is recognised normally, recording begins. When the gesture is recognised again, recording ends.
- C  gesture video In the range of 1m-4m in front of the camera of the drone; after the gesture is successfully recognized, the recording starts. End the recording when the gesture is recognized again

4.3 Picture in Picture Mode

In the picture-in-picture, you can view live video images of the lens below the drone in real time. On the control page, click on the PIP switch to display the video footage captured by the lens. You can freely switch the size of the preview image of the two lenses.

5. Entertainment Mode

Click on the Entertainment Mode button and you will be taken to the following function



- 1. Camera Lens Filter
- 2. Album
- 3. Rocker open

- 4. Select Music
- 5. Return
- 6. Rotating

- 7. Taking Pics
- 8. Video
- 9. Emergency Stop

- 10. Left Remote
- 11. Right Remote

APP User Guide

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Gesture as below:

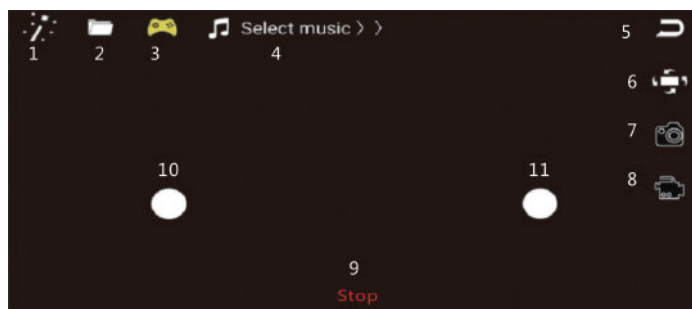
- A  “Yeah” shows taking pics, in the range of 1m-4m in front of the camera of the drone, one-handed flat.
After the gesture is successfully recognized, then countdown 3, 2, 1 and begin to take pics
- B  The open hand gesture should be made within a range of 1m to 4m in front of the drone camera, displaying the video, with all five fingers spread apart using one hand. Once the gesture is recognised normally, recording begins. When the gesture is recognised again, recording ends.
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8. Video
9. Emergency Stop

10. Left Remote
11. Right Remote

Drone manual

FCC Statement

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device can be used in portable exposure condition without restriction.