# GPS TITAN DRONE

**INSTRUCTION MANUAL**

Please read this manual carefully before using this product and keep for future reference.

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**IMPORTANT –** You must change the drone app password to your own unique choice of password in order to use this drone and app. The camera will not operate unless the password has been changed.
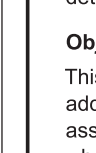
Please follow the QR code shown across to check you have the **latest version of the instruction manual.**

Please see below the QR code to scan for the drone app. More information regarding this is included in this manual. To ensure you have the latest version of the app, please ensure to use the most up to date instruction manual as shown in above QR code.

IOS      ANDROID

The current software version support period of this app is 36 months from purchase. Please pay attention to version updated information and the latest version support period announced by the app.

Gift Universe is committed to the security and privacy of our customers. In an era where internet-connected devices e.g. remote control drones with cameras, are ubiquitous, the importance of safeguarding these products against vulnerabilities cannot be overstated. Recognising the potential for security risks in any connected product, we have established a comprehensive Vulnerability Disclosure and Management Policy to address these concerns effectively.

Management Policy to address these concerns effectively.
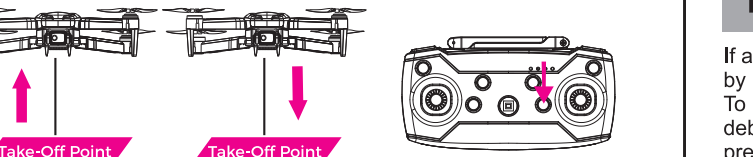This policy can be found on the below link:
**www.menkind.co.uk/gift-universe-vulnerability-disclosure-and-management-policy/**

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If you have identified or suspect a security risk/vulnerability, you should report this via our PSTI Emergency Response Form as per link below:
**www.menkind.co.uk/psti-report-form**
In the Comments/Questions box, please include the following information:

- Organisation (Optional)
- Contact Number (Optional)
- Description and Location of Potential Security Risks/Vulnerabilities
- Product Name
- Product Model/SKU Number
- Mobile App Software Version (Optional)

Alternatively, you can email us directly at the below address. Please ensure to include your full name, email address and all required information as detailed above. **psti@giftuniverse.com**

**Objective**
This policy aims to outline the procedures for reporting, acknowledging, and addressing security vulnerabilities in our internet-connected products and associated applications. Our goal is to foster a collaborative environment where the security research community, users, and our security team work together to improve and maintain the security of our products.

**Reporting Vulnerabilities**
We encourage the responsible reporting of any security vulnerabilities in our products. This includes issues in internet-connected devices, associated mobile applications, and any service that interacts with our devices. Reports can be submitted via our PSTI Emergency Response Form or through our designated PSTI email address **psti@giftuniverse.com** which is monitored by our compliance team.

**Guidelines for Reporting**
- Provide a clear and concise description of the vulnerability, including the product and version affected.
- Include steps to reproduce the vulnerability or proof-of-concept code if available.
- Do not disclose the vulnerability publicly or to third parties until we have had an opportunity to address it.

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**Communication and Acknowledgement**
- **Acknowledgement:** We aim to acknowledge receipt of all vulnerability reports as soon as possible, but no later than 7 days from submission.
- **Confidentiality:** We ask that all communications regarding the vulnerability be kept confidential to protect our customers and products. We are committed to maintaining the confidentiality of the reporter and any sensitive information related to the report.
- **Professional Engagement:** We pledge to engage professionally and positively with all vulnerability reporters. We recognise the invaluable contribution of the security community and are committed to treating all reporters with respect.

**Vulnerability Resolution**
- **Understanding and Resolution:** Our compliance team will work closely with the reporter to understand the nature of the reported vulnerability and develop a plan for its resolution.
- **Resolution Timeline:** We aim to resolve any reported vulnerabilities within 90 days from the acknowledgment of the report. This includes deploying updates to affected products and implementing measures to mitigate the risk of future vulnerabilities.
- **Mitigation:** In cases where immediate resolution is not feasible, we will take appropriate temporary measures to mitigate the risks posed by the vulnerability to our customers and their data.
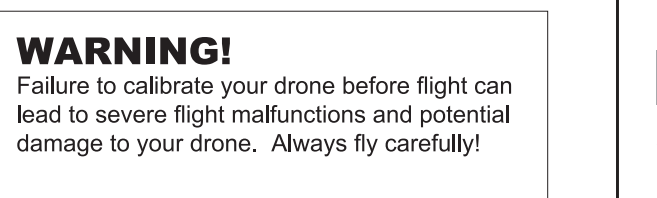
**Commitment**
Gift Universe is dedicated to continuously improving the security of our products. Reporting vulnerabilities is a critical component of this commitment. By working together with the security community and our customers, we can ensure a safer experience for all our customers.

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## PRE-FLIGHT CHECKLIST

Before attempting to fly your drone, make sure that you have done all of the following:

**WARNING!**
Failure to calibrate your drone before flight can lead to severe flight malfunctions and potential damage to your drone. Always fly carefully!

### 3. Battery Safety Warnings

Always unwind all cables before charging
Do not bend, puncture, crush or scratch the drone's battery. Do not store batteries in your pockets, on your person or in extreme temperatures.
Do not charge unsupervised.
Wait for 30 minutes after flying before charging the battery.
Do not plug the USB into an adaptor to plug into a wall socket, only use computer or other USB port.
Only use charging cable provided.
Keep charging battery away from flammable materials.
Do not over charge, only charge for the advised time.
Do not charge the battery in temperatures above 40degrees or less than 0 degrees.
Do not leave batteries in direct sunlight.
Do not cover batteries when charging.
If the battery appears to swell or balloon at all, cease use immediately and place outside away from flammable material and observe for a minimum of 20 minutes. Batteries if swollen can cause fires.
Non compliance of the above warnings may result in the failure of the battery.

### 1. Introduction

Thank you for purchasing the GPS Titan Drone with FPV, to ensure safe and fun use of the drone, ensure to read and follow these instructions and keep for future reference.

### 2. Contents
- 1 Titan Drone
- Remote Control
- USB Charging Cable
- Extra Rotor Blades
- Screwdriver

### 3. Safety Warnings

Only for use outdoors,
Only fly the drone in open spaces, away from obstacles such as trees, power lines, vehicles, and buildings,
Do not fly near people or animals,
Do not fly your drone in adverse weather conditions, such as wind or rain,
Keep away from water and excess moisture,
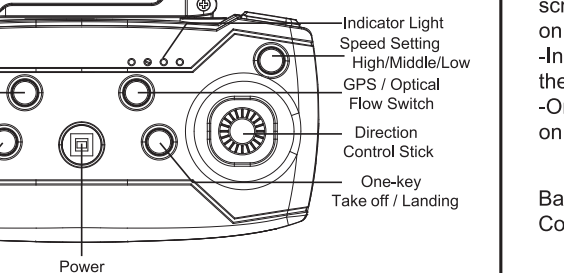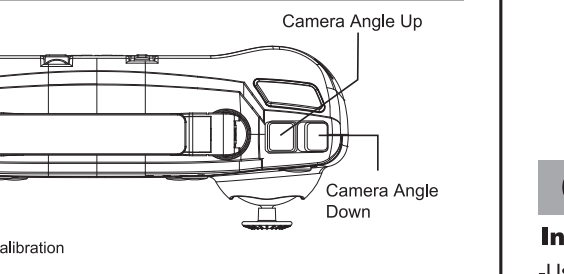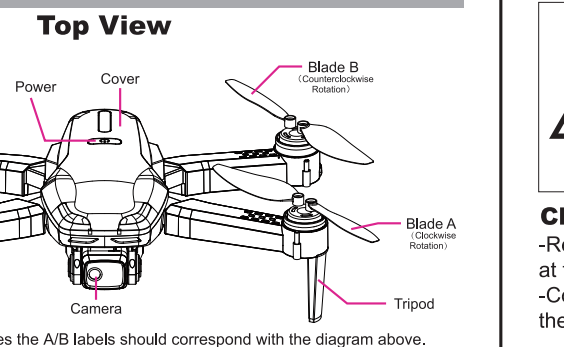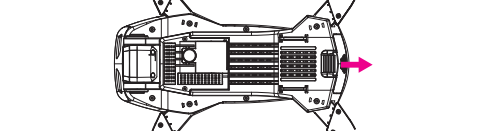Keep away from flames and excessive heat,

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Your drone is specifically designed for outdoor flying.
Do not attempt to fly your drone or calibrate it indoors.

### 4. Remote Control

Take Photo                Camera Angle Up
Start recording           Camera Angle Down
Press and hold for Geomagnetic Calibration
Press once for Gyro Calibration

One-Key Return     Indicator Light
Return               Speed Setting
Throttle              High/Middle/Low
Stick                 GPS / Optical
                      Flow Switch
Headless             One-Key
Mode                 Take-off / Landing
Power
ON/OFF

### 5. Drone Information

**Top View**

Mode A                Mode B
Mode C                Mode D

Note: When replacing the rotor blades the A/B/C/D blades should correspond with the diagram above.

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### Battery Compartment

Charge time: 180 Minutes

### 6. Powering your Drone & Remote

**Inserting Batteries Into Your Remote**
-Use a screwdriver (included) and turn it counterclockwise, Take out the screw and press the tab down to open up the battery compartment located on the rear of your remote control,
-Insert 3 AA 1.5V batteries, making sure that the batteries are inserted with the correct polarity (+,-) as displayed in the battery compartment,
-Once the batteries are inserted, put the battery compartment covers back on the battery compartments, and use a screwdriver to close the cover.

Battery                Insert batteries in correct
Compartment            polarities as displayed in
                       battery compartment,
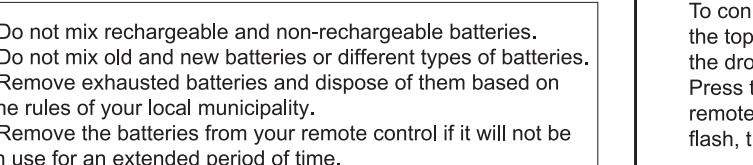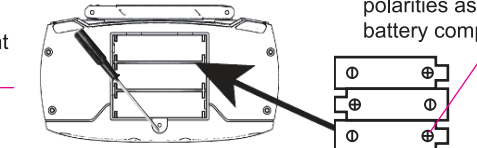
**Charging the Drone Battery**
-Remove the battery from the drone from the battery compartment located at the side of your aircraft,
-Connect the battery to one end of the included charging cable, Then, plug the other end into a USB charging adapter (not included),

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The blue light will flash, and the red light will be consistently on whilst the battery is charging. Once the battery is fully charged, the blue light will stop flashing and the red light will turn off, then remove from charge.
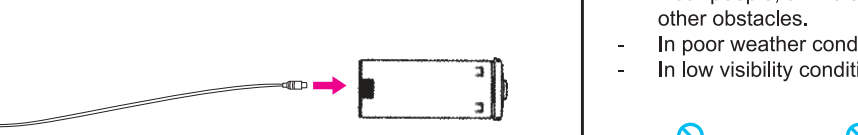
**⚠ Warnings**
Do not charge unsupervised.
Wait for 30 minutes after flying before charging the battery.
Do not plug the USB into an adaptor to plug into a wall socket, only use computer or other USB port.
Only use charging cable provided.
Keep charging battery away from flammable materials.
Do not over charge, only charge for the advised time.
Do not charge the battery in temperatures above 40degrees or less than 0 degrees.
Do not leave batteries in direct sunlight.
Do not cover batteries when charging.
If the battery appears to swell or balloon at all, cease use immediately and place outside away from flammable material and observe for a minimum of 20 minutes. Batteries if swollen can cause fires.
Remove the battery from the drone when not in use.

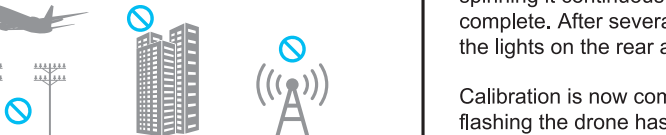### 7. Connecting the Remote Control

To connect the drone to the remote control, press the power button on the top of the drone, The lights on the drone will flash quickly, indicating the drone is on and ready to pair.
Press the power button on the remote control, once the light on the remote control and the front of the drone stabilise whilst the rear lights flash, this indicates the drone and remote control are now paired,
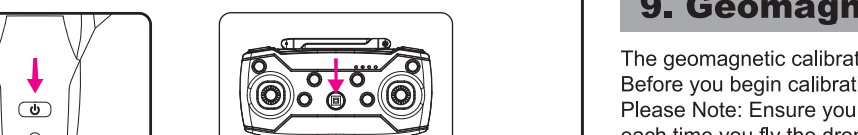
### 8. Calibration

Before flying the drone, Ensure the environment is suitable,
Avoid flying the drone when:
- Near people, animals, buildings, communication towers, airports, or other obstacles,
- In poor weather conditions such as strong wind, rain, or snow,
- In low visibility conditions,

**Ideal flying conditions:**

Fly in a open         Strong GPS signal    Fly within        Control body
unobstructed                               Visual range      Height below 120m
environment

To calibrate the drone, turn the remote control and drone on by pressing the ON/OFF button on both,

### 9. Geomagnetic Calibration

The geomagnetic calibration allows the drone to be tracked via GPS, Before you begin calibration, ensure the drone is on a flat, stable surface, Please Note: Ensure you follow the geomagnetic calibration process before each time you fly the drone in GPS mode,

### Gyroscope Calibration

Calibrate the internal gyroscope to ensure smooth flight, Before you begin calibration, ensure the drone is on a flat, stable surface,

To calibrate the internal Gyroscope press the Gyro/Geomagnetic correction button, When the lights consistently flash, calibration is complete,

Please Note: If the drone flies without command from your remote control, please retry calibrating the internal gyroscope,

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To begin the geomagnetic calibration process, press and hold the geomagnetic correction button located on the top left of the remote control, the front and rear lights on the drone will begin to flash,

Rotate your drone horizontally, spinning it in a clockwise direction continuously until your controller beep,

Turn the head of your drone downwards and rotate it clockwise vertically, spinning it continuously until your controller two beeps, calibration is complete, After several seconds, once the drone body's GPS signal, the lights on the rear arms will stop flashing and shine steadily,

Calibration is now complete, once the lights at the rear of the drone stop flashing the drone has located a GPS signal,

**WARNING**
-When flying your drone in GPS mode, make sure you are in a wide-open space,
-Do not calibrate your drone in areas where there are strong magnetic fields,
-When calibrating, do not carry ferromagnetic materials such as keys or cell phones,
-Do not calibrate near large sheets of metal,

### 10. Flight Modes

**Outdoor Flight: GPS Mode**
Once you have assessed your environment to ensure it is suitable for drone flight and successfully connected to the remote control, the drone should automatically enter GPS mode (if it does not you can press the GPS/Optical flow button to enter GPS mode),

The drone will now try to establish a GPS connection, the rear lights on the drone will flash whilst it is doing this, Once a connection is obtained, the rear lights will stop flashing,

Please Note: if the rear lights flash slowly, this means there is an interference with the signal due to obstructions in the flying environment, Move the drone to an area where there is few obstructions,

**Optical Flow Mode**
When flying the drone in more enclosed spaces, press the GPS/Optical Flow button to change the flight mode to optical flow mode, The drone will beep to confirm the mode has been changed,

Press the button again to re-enter GPS mode, the drone will beep twice once to confirm it is now in GPS mode,

One Beep: Optical Flow Mode
Two Beeps: GPS Mode

### 11. Flying Your Drone

**Pre-flight**
Ensure you have read and understood these instructions completely before flying the drone,

1. Place the drone in a wide-open space away from people, animals, aircrafts, and other obstacles, Ensure the resting surface is flat and stable,
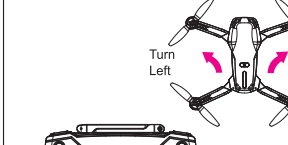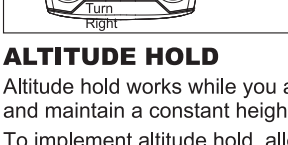2. Practise using the throttle stick and directional control stick to get used to sensitivity before flight,

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### UP AND DOWN
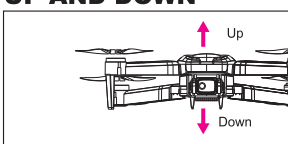
### FORWARD AND BACKWARD

### LEFT AND RIGHT TURN

### LEFT AND RIGHT SHIFT

**ALTITUDE HOLD**
Altitude hold works while you are flying your drone to help the drone hover and maintain a constant height making aerial photography easy,
To implement altitude hold, allow the left thumb stick to fall back to its default middle position while flying, and the drone will balance itself to hold its altitude,

### 12. Take-off & Landing

**Manual Take-Off**
Once the remote is paired and your drone is calibrated, the drone will automatically search for a GPS signal,
Once sufficient GPS connection is achieved, ( the lights on the aircraft will flash, Push the left throttle stick to the bottom left and push the right direction stick to the bottom right simultaneously ( ↙ ... ↘,
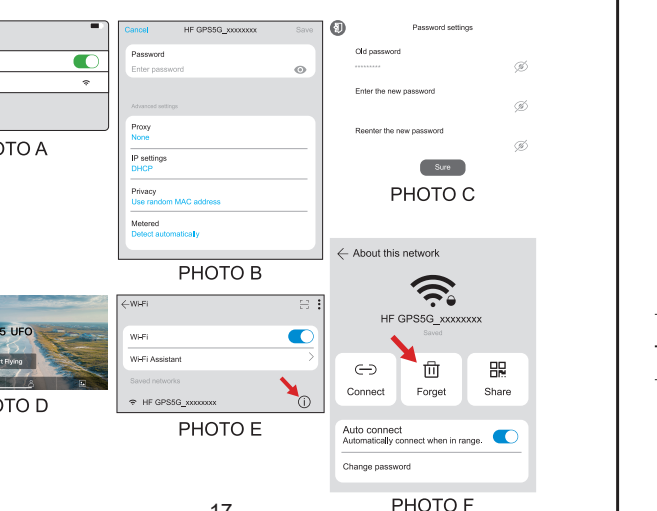The blades will start to rotate, Push the throttle up, the aircraft will start to take off,

### 13. One Key Return

**One Key Take-off and Landing**
1.For easy take-off , press the One Key Take-off button on the controller and the drone will automatically hover above the ground, Move your left control stick up and the drone will fly up,
By pressing the One Key Landing button, your drone will automatically land on the ground,

Take-off Point        Take-off Point

NOTE: Make sure your drone is properly calibrated before attempting to fly,

Press the One-Key Return button located at the left side of your controller to start a return flight, The drone will travel back and land on the take-off point,

PLEASE NOTE: It is important that the GPS is correctly calibrated before launch and before activating one key return, Failing to do so may result in the drone flying away when one key return is attempted,

One-Key return
Start

### 14. Speed Adjustment

Your drone has three speed modes: high speed, medium speed and low speed, To switch between speed modes, press the speed button,
Each mode will be identifiable by a series of beeps,

### 15. Motor Lockdown

If an object gets in the way of the blades, the drone will protect the motors by putting them in protective lockdown mode,
To unlock the motors, ensure the blades are free from obstructions and debris, place the drone back on a flat, stable surface and when ready begin pre-flight checks and take-off again,

**Low Speed Mode:** One Beep
Beep Middle Speed Mode: Two Beeps
High Speed Mode: Three Beeps

### 16. Headless Mode

Headless mode allows you to fly without worrying about the drone's orientation, Regardless of which way your drone is facing, this function ensures your drone will always follow constrols from your perspective,

To enter Headless mode, before your drone takes off, stand in front of your drone and press and hold the Headless mode button on your remote control, The remote control will consistently beep until Headless mode is deactivated, To deactivate Headless mode press and hold the Headless mode button again,

Forward                Forward

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### 17. Emergency Landing

When the drone battery is low, its LED lights will slowly flash, When this happens, you should immediately fly the drone back to your location, otherwise the drone will begin flying automatically towards the take-off point and slowly lower itself to the ground,

The drone may not respond to commands from remote control when drone battery is extremely low,

**CONTROLLER ALERTS**
When the remote control battery is low, it will emit a slow series of beeps, signaling that the batteries need to be replaced,

**PLEASE NOTE:** Do not ignore low power warnings, Doing so may result in unplanned landings,

### 18. Propeller Blade Installation

If your rotor blades become damaged or the drone is no longer flying straight the rotor-blades may need to be replaced, To replace the rotor blades please follow the directions below,

1. Remove the motor cap and the screw securing the rotor blade, and lift the blade off taking note whether the blade that is being replaced is an 'A' blade or a 'B' blade,
2. Push the replacement blade onto the stem making sure that the screw holes align and the replacement rotor blade is the same ('A' or 'B') as the orignal rotor blade,
3. Once the rotor blade is in position replace the securing screw,

### 19. Connecting the drone to your smartphone

**Wifi Connection**
Scan one of the below QR codes based on your phones operating system,

IOS       Android       Download and install the app 'RED5 UFO'

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### Connect Devices

Once you have downloaded the app, turn on the drone and then follow below steps:
1. Enter the "Settings" menu of your mobile device and turn on "Wi-Fi"
2. Select 'HF GPSSG_xxxxxxx' (xxxxxxx are random numbers) as shown in Photo A,
3. When you connect your mobile phone to the drone for the first time, you will be asked for a password, The password is 00099584, Enter the numbers to complete login - as shown in Photo B,
4. Once entering the **RED5 UFO** app for the first time, you will have to change the password to your own choice of password, Please enter a new password of at least 8 digits as shown in Photo C,
5. Click the button 'HF GPSSG_xxxxxxx' to enter Wi-Fi menu again - as shown in Photo B,
6. Enter the Wi-Fi surface again and click the icon ① - As shown in Photo E
7. Click the 'Forget' button to clear wifi wrong password record - as shown in Photo F,
8. Select 'HF GPSSG_xxxxxxx' again and enter the new password,
9. Enter the **RED5 UFO** app again and click the "Start Flying" button,

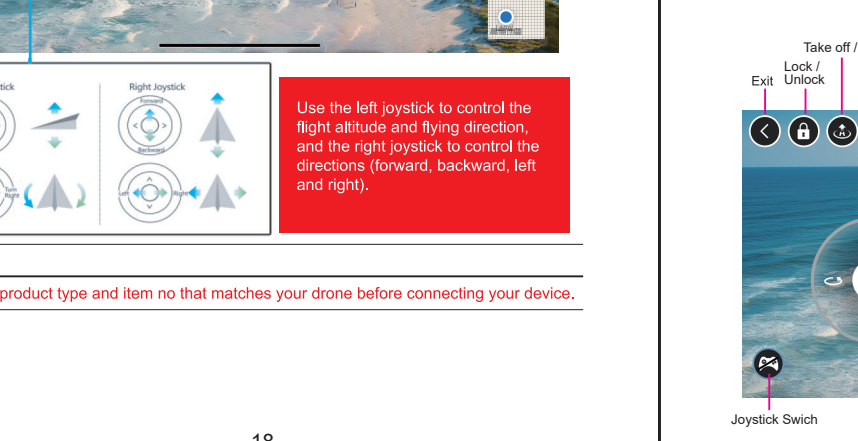### Enter RED5 UFO Interface

Click "Start Flying" to enter the operation interface,
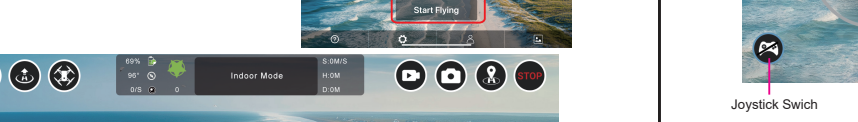
**Smart follow mode**
When activated, the Smart Follow function will make the drone follow your smart phone's GPS location,
To activate Smart Follow Mode, choose the follow button on the control interface app,
NOTE: It is important that the GPS and smart phone are correctly connected to the drone,

Activate 'Smart Follow Mode'

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**IMPORTANT –** please note, you must change your password from the original fixed app password to your own choice of password, If you enter the app without changing this, it will show that you are unable to operate and use the camera until you have changed the password, If you use another smartphone to operate this drone with the app, you will need to create and use your own choice of password to enter the app,

Use the left joystick to control the flight altitude and flying direction, and the right joystick to control the directions (forward, backward, left and right),

**Notes:**
Select the product type and item no that matches your drone before connecting your device,

### APP Interface Instruction

### How To Reset Wi-Fi Password

If you forget your password, please refer to the following steps to reset it:
1. Turn off the drone and turn off the remote control, Exit the **RED5 UFO** app,
2. Turn on the drone and remote control, Make sure they are connected successfully,
3. Stop flying the drone and put it on a flat surface, Then press and hold the Speed Setting button for 5 seconds (as shown in Photo G) until you hear a noise prompt, This noise prompt means the Wi-Fi password has been reset successfully, The password has now become the original password 00099584, Now the password become the original password 00099584,
4. Enter the Wi-Fi menu and click the icon of saved networks "HF GPSSG_xxxxxxx", then click the "Forget" button to clear wifi wrong password record,
5. Enter the original password 00099584 to complete password login,
6. Enter the **RED5 UFO** app and you will have to change the password again before using the camera and drone, Please enter your new chosen password of at least 8 digits,

Reset Password
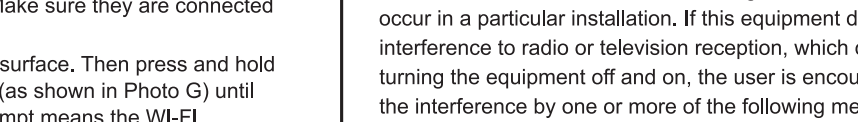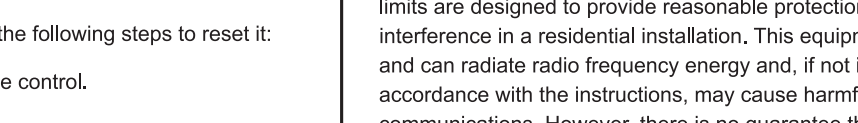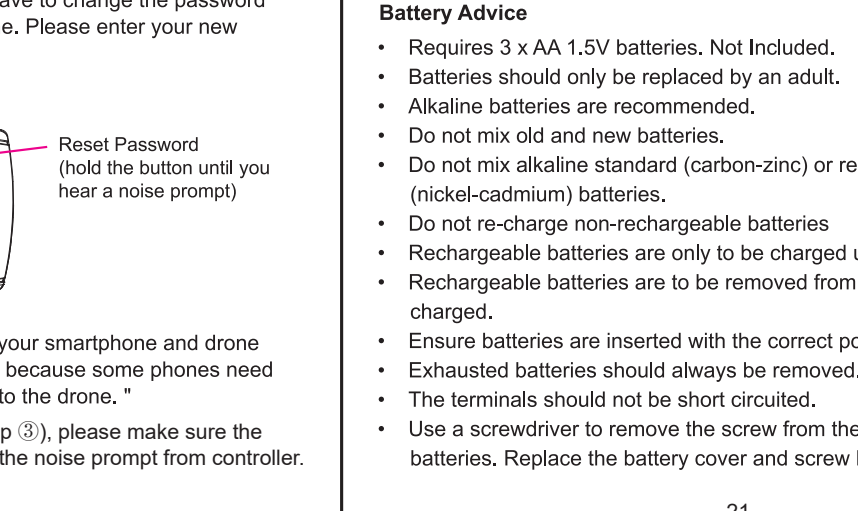(hold the button until you hear a noise prompt)

**TIP:** If you are having problems connecting your smartphone and drone together, switch off your mobile data, This is because some phones need this to be deactivated to connect the phone to the drone, 

**Warning:** When resetting the password (step ③), please make sure the lights on the drone flashing completed after the noise prompt from controller, Otherwise it may cause connection issues,

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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 a 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,

**Battery Advice**
- Requires 3 x AA 1.5V batteries, Not Included,
- Batteries should only be replaced by an adult,
- Alkaline batteries are recommended,
- Do not mix old and new batteries,
- Do not mix alkaline standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries,
- Do not re-charge non-rechargeable batteries
- Rechargeable batteries are only to be charged under adult supervision,
- Rechargeable batteries are to be removed from the product before being charged,
- Ensure batteries are inserted with the correct polarity,
- Exhausted batteries should always be removed,
- The terminals should not be short circuited,
- Use a screwdriver to remove the screw from the battery cover and insert batteries, Replace the battery cover and screw before use,

Adult supervision required, Only use charging cable provided,

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