Gleesfun

14+
for age

# User Manual

v1.0

# F11PRO

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# Content

# 1. Reading Tips

## 1.1 Symbol Explanation

Recommend  Warning  Hints & Tips  Reference

## 1.2 Read Before the First Flight

- Read the following documents before using the Gleesfun G11PRO

  1. User Manual
  2. Flight Guide & Safety Disclaimer

- It is recommended to watch all tutorial videos on our website and read the Flight Guide & Safety Disclaimer before using for the first time.

## 1.3 Download the Gleesfun Fly App

- Please make sure to use Gleesfun Fly App during the flight. Scan the QR code to download the latest version of the app.

- Gleesfun Fly App supports Android 7.1 or higher, iOS 13.0 or higher.

( For Android )

( For iOS )

## 1.4 Tutorial Videos

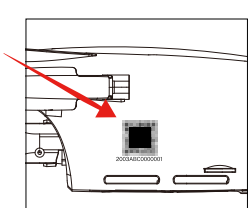
- Scan the QR code to watch the tutorial videos to ensure correct and safe use of the product.

## 1.5 FAA Remote ID Registration Process

### 1.5.1 Find the Serial Number

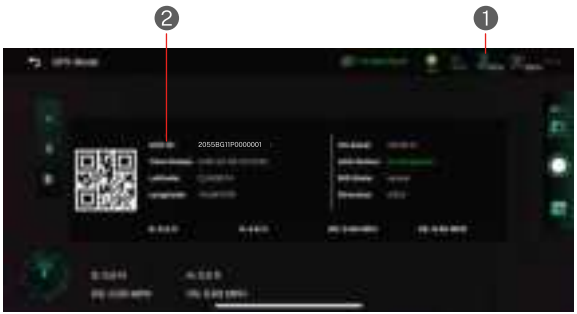
- The G11PRO comes with a built-in FAA Remote ID module. You can obtain the unique Remote ID serial number through the app or on the aircraft itself. Please register according to your local regulations.

① Remote ID serial number on the aircraft.



② Gleesfun Fly App: Successfully pair the aircraft with the remote controller --> Insert the data cable --> enter the “Gleesfun Fly” app --> enter CONTROL page --> Click the power icon in the upper right corner --> the RID information will pop.




### 1.5.2 Registration

① Please go to FAA website: https://faadronezone-access.faa.gov/#/

② Please complete and submit the information following these steps.






- The aircraft will start broadcasting the FAA remote ID signal when the aircraft's motors begin to spin.

# 2 Product Profile

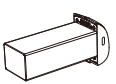
## 2.1 Introduction

- The Gleesfun G11PRO features a foldable design and weighs about 357g. It offers stable hovering and flying capabilities outdoors with impressive shooting performance. Equipped with upgraded 5.8GHz Wi-Fi FPV real-time transmission, it includes a 75° FOV lens and a 90° adjustable camera. The camera captures 4K HD video and 6K UHD photos, providing a wide view to capture your moments. The advanced flight-control system ensures agile, stable, and safe flying. With auto RTH, the aircraft will automatically return to its starting point and land if it loses signal or the battery is low. Please use the product in accordance with local laws and regulations.

## 2.2 Product List

Drone


Remote Controller



Smart Flight Battery

Camera Cover

Spare Propeller

Charging Cable

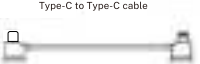


Screwdriver

Screw

Type-C to Micro-USB cable

Type-C to Type-C cable



Type-C to Lightning cable


User Manual

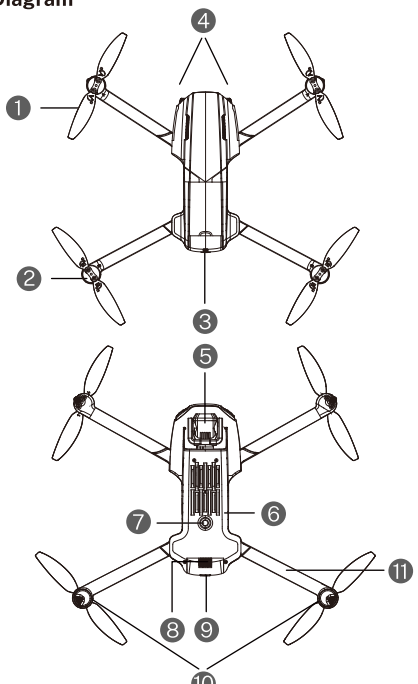

Flight Guide & Safety Disclaimer

Type-C to Type-C cable is stored inside the remote controller when shipped.

## 2.3 Diagram

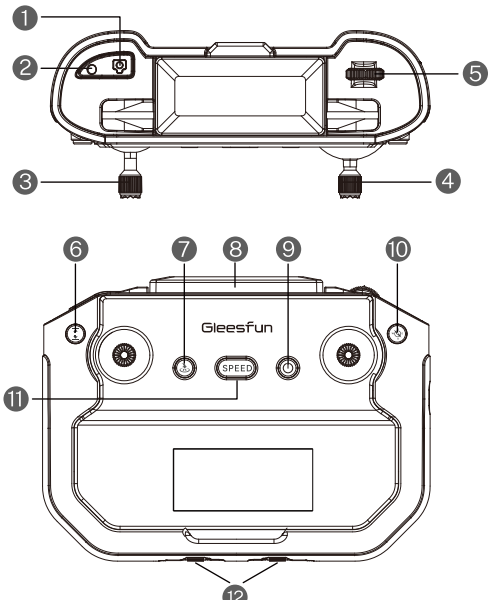
### 2.3.1 Aircraft Diagram




1. Propeller
2. Motor
3. Smart Flight Battery
4. LED Light
5. 3 Axis Brushless Gimbal Camera
6. SD Card Slot
7. Optical Flow Sensor
8. Battery Buckle
9. Power Button
10. Aircraft Status Indicator Light
11. Arm

## 2.3.2 Remote Controller Diagram




**1 Shutter Button**
Short press once to take a picture.

**2 Record Button**
(1) Record: Short press it to start/stop recording.
(2) Switch to Japanese stick mode: Hold down the recording button and then power on the remote controller (Short-press it then long-press the power button).

**3 Left Joystick**
(American stick mode) Throttle stick, used to adjust the aircraft's altitude and control the direction of the front of the aircraft. For more details, please refer to section 4.2.5.

**4 Right Joystick:**
Directional stick, used to control the aircraft's flight direction (forward/backward/left/right). For more details, please refer to section 4.2.5.

**5 Gimbal Gear**
Adjust the Gimbal Camera Angle.

**6 One-key Takeoff/ Landing and Cruise Control Button**
(1)One-key Takeoff: After unlocking the motor, long press it and the aircraft will automatically take off to a height of about 1.5 meters.
(2)One-key Landing: Long press it while the aircraft is flying and the aircraft will descend to the ground at the existing coordinates.
(3)Cruise Control: Press this button while operating the joysticks to activate the Cruise Control.

**7 Smart RTH Button**
(1)Press it to initiate automatic Return-to-Home (RTH), where the aircraft will return to its takeoff location and land. (There may be a deviation of up to 3 meters from the takeoff position, depending on GPS signal strength at takeoff.)
(2)To cancel the RTH process, press the button again during the return.

**8 Mobile Phone Holder**
Flip up to open the holder for placing the mobile phone. The width of the phone holder is adjustable. The maximum adjustable width is suitable for a 6.7-inch phone.

**9 Power Button**
(1)Turn on the remote controller: Short-press it then long-press it
(2)Turn off the remote controller: Long-press it
(3)Check the power level: Short-press it once

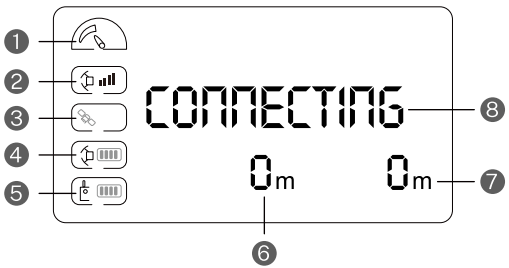
**10 Compass Calibration Button**
(1)Enter compass calibration: Short press it
(2) GPS mode/ Attitude mode:
① If GPS signal is not found, press and hold the button for 3 seconds to turn off GPS and switch the aircraft to Attitude Mode.
② When the aircraft is in Attitude Mode, press and hold the button for 3 seconds to turn on GPS and switch to GPS Mode.
⚠ (GPS is turn on by default when powering on, please do not turn it off when flying outdoors to avoid losing the aircraft). (Once GPS signal is acquired, you cannot switch back to Attitude Mode.)

**11 SPEED Button**
Press down for speed adjustment, (2 speeds in total) default is stable mode, accelerate is sport mode.

**12 12.Sticks Storage Hole**

### 2.3.3 Remote Controller Display




1. Speed
2. Aircraft Connection Signal
3. GPS Signal
4. Aircraft Power
5. Remote Controller Power
6. Flight Distance
7. Flight Height
8. Status Display

# 3. Aircraft

- G11PRO aircraft consists of a flight control system, a communication system, an image system, a power system and a smart flight battery.

## 3.1 Speed Mode

- G11PRO has two speed modes, Stable Mode and Sport Mode. After the aircraft is turned on, the stable speed mode is turned on by default. You can switch by pressing the SPEED button on the remote controller. The stable mode speed is 6m/s and the sport mode speed is 8m/s.

- When wind speed is high, sport mode should be maintained to improve wind resistance effect.
- When flying in sport mode, the pilot should reserve at least 3 meters of braking distance to ensure flight safety.
- When flying in sport mode, the power of the aircraft will be greatly improved, and the small manipulations of the joysticks on the remote controller can result in large flight maneuvers of the aircraft. Please reserve enough flying space to ensure the safety of the flight.

## 3.2 Aircraft Status Indicator

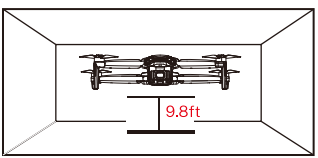
- The G11PRO status indicator light is located above the front landing gear and is used to display the current status of the flight. Please refer to the table below to understand what each flashing pattern indicates.

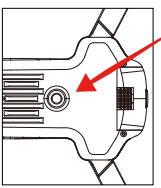
| Blinking status of the indicator | | Conditions |
|---|---|---|
|  | Indicator is in solid yellow | Optical flow positioning |
|  | Indicator is in solid green | GPS mode (GPS signal search completed) |
|  | Indicator off for 1 second | Taking pictures |
|  | Indicator flashes twice at intervals in yellow | Recording Video |
|  | Indicator flashes slowly in yellow | Frequency Calibration in Progress |
|  | Indicator flashes slowly in red | Low battery |
| | | The aircraft was not placed on a level surface after pairing |
|  | Indicator flashes quickly in yellow | Enter compass calibration |
|  | Indicator flashes quickly in green | Weak GPS signal |
|  | Indicator is in solid red | During Return to Home |
| | | Searching for GPS signal |
|  | Indicator flashes quickly for 2 seconds in yellow | Enter gyroscopes calibration |

## 3.3 Optical Flow Positioning

- The aircraft is equipped with a downward vision positioning system, which enhances its ability to adapt to different environments. This system, composed of downward vision cameras and sensors, allows the aircraft to hover steadily at low altitudes or indoors, even when GPS is unavailable or the signal is weak.




- Optical flow positioning can only assist flight in environments with sufficient lighting and textured surfaces. It cannot fully replace user judgment, so please pay attention to the aircraft's status and the APP prompts. Do not overly rely on the optical flow positioning.

- Optical flow positioning may perform poorly or fail in environments that are too bright, too dark, mirror-like, smooth single-colored surfaces, water surfaces, reflective surfaces, or sparsely textured surfaces.

- The optimal working range for optical flow positioning is between 1.64ft (0.5m) to 9.84ft (3m). Beyond this range, the performance of the downward optical flow vision system may be less effective, so please fly with caution.

- Ensure that the lens of the optical flow vision system is clean, and avoid blocking or interfering with it.

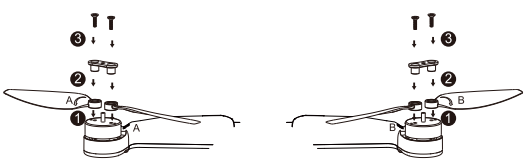
- Optical flow positioning can only be used in attitude mode. When the aircraft successfully acquires a GPS signal outdoors, it will automatically switch to GPS positioning mode.

## 3.4 Propellers

- The propellers on the adjacent motors of the G11PRO are forward and reverse propellers. The two propellers on the same motor are the same, and the propellers are marked A and B respectively.

| Propellers | Mark A | Mark B |
|---|---|---|
|  |  |  |
| Installation location | Installed to the motor with A mark on the arm | Installed to the motor with B mark on the arm |




**Install the propellers**

- Taking the camera direction as the front, the left front arm and right rear arm must be installed with propellers marked with A; the right front arm and left rear arm must be installed with propellers marked with B. Use a screwdriver to install and make sure the screws are tightened.

**Detach the Propellers**

- Use the screwdriver to detach the propellers from the motors.

- Please use the propellers provided by Gleesfun, and do not mix propellers of different types.
- Please check whether the propeller is installed correctly and tightly before each flight.
- Please check to make sure that the propellers are in good condition before each flight.

## 3.5 Smart Flight Battery

- The G11PRO smart flight battery has a capacity of 3200mAh, a rated voltage of 7.7V, and includes charge/discharge management features. This battery uses high-energy, large-capacity cells to provide strong support for the aircraft’ s flight time.

### 3.5.1 Battery Features

| | |
|---|---|
| **Balance Protection** | Automatically balance the internal battery cell voltage to protect the battery. |
| **Overcharge Protection** | It can prevent the battery from being overcharged and causing serious damage to the battery. When the battery is fully charged, remove the charger device in time. |
| **Over-discharge Protection** | It can avoid damaging the battery due to over-discharge. |
| **Short Circuit Protection** | When the battery detects a short circuit, the output will be cut off to protect the battery. |

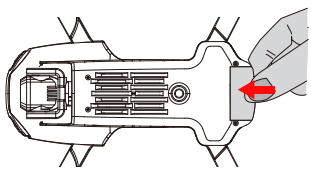
- Please read carefully and strictly abide by Gleesfun's Requirements in this User Manual, Flight Guide & Safety Disclaimer, and stickers on the battery surface before using the battery. The user shall bear the consequences caused by failure to use it as required.

### 3.5.2 Install / Remove the Battery

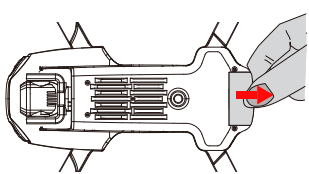
- **Install**

  Insert the smart flight battery into the battery compartment and push it down until you hear a "click" from the battery buckle, indicating that it pops up and locks. Make sure the battery is in place.



- **Remove**

  To remove the battery, press the buckle on the bottom of the battery and pull the battery out of the compartment.



- Do not install the battery into the aircraft or remove the battery from the aircraft when the battery power is turned on. Otherwise, the poor contact of the battery interface during the operation may cause the battery to short-circuit and burn the aircraft.
- The battery must be installed or removed with the battery power turned off.

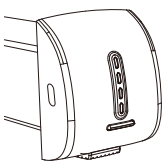
 

### 3.5.3 Powering On/Off

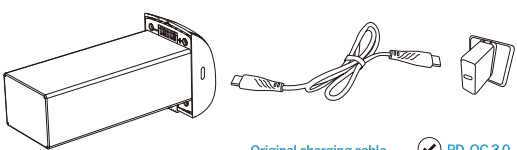
- Long press the power button to power on or off.

### 3.5.4 Checking Battery Level

- Long press the power button until all four bars of the indicator light up, then release the power button. After powering on, the power indicator shows the current battery level.




### 3.5.5 Charging the Battery




- Before using the smart flight battery, be sure to fully charge it.
- Please use the USB cable provided in the package for charging. Support PD, QC3.0 plug.
- In the charging state, the battery power indicator will flash and indicate the current charge level. When the fourth indicator light is always on, it indicates that the charging is complete.
- After charging is complete, please remove the charger in time.
- Charging time: 2.5 hours (using the Type-C fast charging cable that comes with the package).

### 3.5.6 Low Temperature Notice

- When using the battery in a low-temperature environment (32°F-41°F / 0°C-5°C), please make sure that the battery is fully charged. The flight time will be reduced as the discharge capacity of the battery will be reduced when working in a low-temperature environment.

- In a low-temperature environment, due to the battery output power limitation, the aircraft's wind resistance and flight performance will be reduced. Please be careful.

- Pay more attention when flying in low-temperature and high-altitude environments.

### 3.5.7 Daily Preservation Advice

- It is recommended to charge and discharge it once a month, do not store with a full charge, keep 50%-60% of the power, the storage temperature is 50°F-104°F (10°C-40°C), and the best storage temperature is 66.2°F-69.8°F (19°C -21°C).

- If water enters the battery and the battery protection board fails, the battery cannot be used normally. Do not use the battery in rain or in a humid environment, as this may cause the battery to self-ignite or even explode.

- If the battery is squeezed, deformed, and dropped from a high altitude, it is forbidden to use it again.

- Prolonged exposure to high temperatures is forbidden. High temperatures will cause the internal pressure of the battery to become too high and cause an explosion.

- The positive and negative poles are short-circuited for a long time (such as the battery contacts have water, short-circuit caused by hair or foreign objects, etc.). If it exceeds 30 minutes, the protection board IC will fail and disconnect, and the battery cannot be used normally.

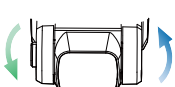
- If the aircraft has not been used for a month, the battery must be removed to prevent the battery from being discharged for a long time.

## 3.6 Camera Overview

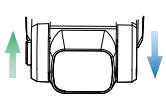
- The camera uses an upgraded 5.8GHz Wi-Fi FPV real-time transmission function, equipped with a 120°FOV lens and a 90° adjustable camera as well as 3-axis brushless gimbal, which can stably shoot 4K HD video and 6K ultra-clear images, providing you with a broad field of vision for unforgettable moments.

### 3.6.1 3-Axis Brushless Gimbal

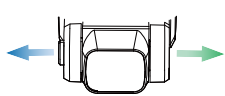
- The G11PRO is equipped with a three-axis mechanical stabilization gimbal, with roll, pitch, and yaw axes powered by brushless motors. This ensures stable and smooth image transmission.



Roll Axis



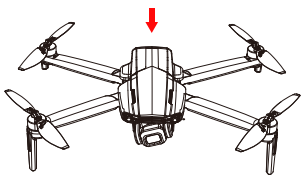
Tilt Axis



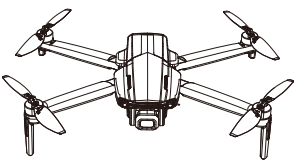
Yaw Axis

- The gimbal will not function and may appear tilted before it is powered on and completes its self-check. This is normal. Once powered on, the gimbal will automatically perform a self-check, which takes about 20 seconds. After the self-check, the gimbal will stabilize and level itself automatically.

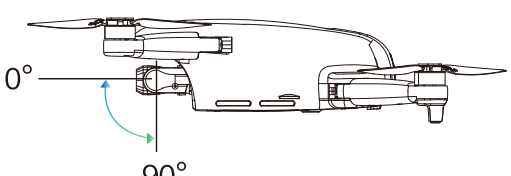


Before power on and self-check (Non-operational state)



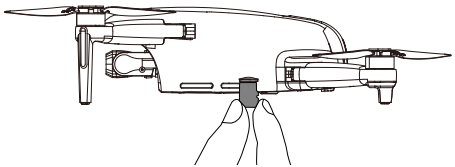
After powering on and completing the self-check (operational state)

### 3.6.2 The aircraft adjustment angle is -90° to 0°



### 3.6.3 Image Storage



- The G11PRO is equipped with a micro-SD card slot for expanding storage capacity. (SD card is not included in package)

  ①Card speed: 10M/s.
  ②File format: Support FAT32 format.
  ③Memory capacity: A memory card with a memory capacity of 128G or less.

| G11PRO | Picture | Video |
|---|---|---|
| App | 5700×3200P<br>4096×3072P<br>3840×2160P | 1280×720P@25fps |
| SD card | 5700×3200P<br>4096×3072P<br>3840×2160P | 3840×2160P@30fps<br>2688×1512P@50fps<br>2688×1512P@30fps<br>2048×1080P@50fps |

- Check whether the capacity of the memory card is sufficient. If the capacity of the memory card is insufficient, videos and pictures cannot be stored in the memory card.
- If you cannot save pictures or videos, try formatting the memory card.
- Do not insert or remove the micro SD card after the aircraft is powered on, as this may cause damage to the card or result in data loss.
- After the memory card is installed, the picture and video files will be stored in the memory card, and the pictures and videos will not be stored on the mobile phone.
- After powering on and connecting the aircraft, you can use the app to download photos or videos stored on the aircraft's memory card to your mobile device.

# 4 Remote Controller

## 4.1 Introduction

- G11PRO remote controller uses the 5.8 GHz frequency band, and the remote controller distance is up to 10000ft (unobstructed and interference-free environment). The retractable handle can securely hold a phone and supports devices up to 6.7 inches in size.

- Remote controller built-in 3600mAh 3.7V capacity battery, charging time is 3.5 hours, and the longest working time is about 4 hours.

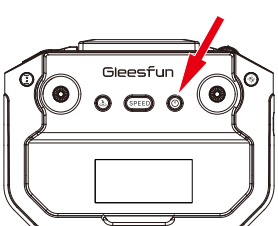
## 4.2 Remote Controller Instructions

### 4.2.1 Powering On/ Off

- Powering on: Long press the power button.

- Powering off: Long press the power button.

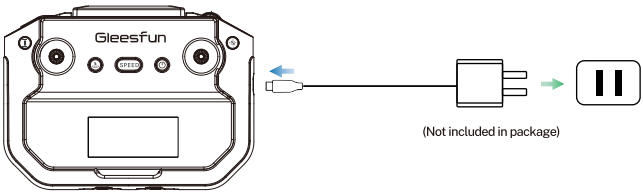
- Check the remote controller's battery level: Short press the power button.



### 4.2.2 Charging

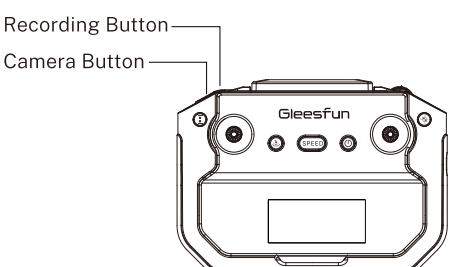
• Connect the remote controller Type-C port to the charger to charge it.




### 4.2.3 Controlling the Camera

• Record Button: Short press it to start/stop recording.

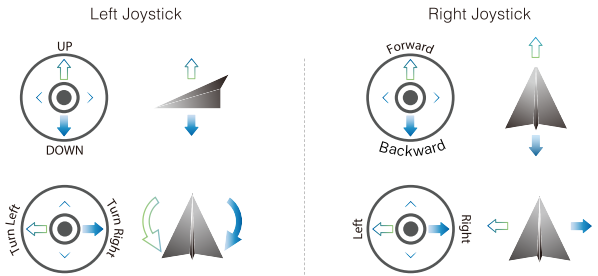
• Shutter Button: Short press it to take a photo.



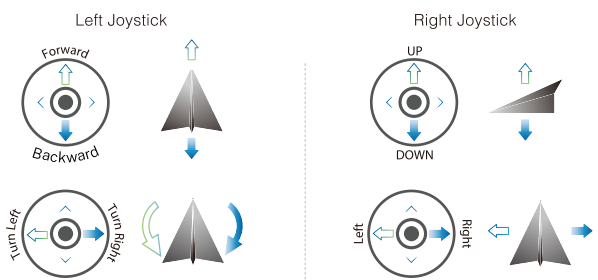

 

### 4.2.4 American stick mode and Japanese stick mode

- American stick mode for controlling the aircraft is as follows:




- Japanese stick mode for controlling the aircraft is as follows:



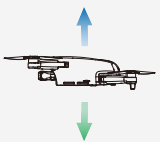
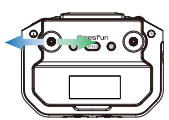

**How to Switch**

- Press and hold the record button to turn on the remote controller, it will be Japanese stick mode after turning on.

- It will back to the default American stick mode when turn off the remote controller and turn on again.

## 4.2.5 Remote Controller Joystick Operation Instructions

| Remote Controller (Default American Stick Mode) | Aircraft Direction | Operation Instructions |
|---|---|---|
|  |  | 1.Push the stick upward to make the aircraft ascend.<br>2. Pull the stick downward to make the aircraft descend.<br>3. When the stick is released and returns to the center position, the aircraft will hover. (When taking off, the left stick must be pushed upward to lift the aircraft off the ground. Push the stick slowly to prevent the aircraft from suddenly ascending too rapidly.) |
|  |  | 1.Push the stick to the left, and the aircraft will rotate counterclockwise.<br>2.Push the stick to the right, and the aircraft will rotate clockwise.<br>3.The amount you push the stick controls the rotation speed of the aircraft. The further you push the stick, the faster the rotation. |
|  |  | 1.Push the stick up to make the aircraft fly forward.<br>2.Push the stick down to make the aircraft fly backward.<br>3.When the stick is in the neutral position, the aircraft's forward and backward direction remains level.<br>4.When the aircraft moves forward or backward, the body will tilt forward or backward.<br>5.The amount you push the stick controls the flight speed; the greater the push, the larger the tilt angle and the faster the flight. |
|  |  | 1.Push the stick left to make the aircraft fly to the left.<br>2.Push the stick right to make the aircraft fly to the right."<br>3.When the stick is in the neutral position, the aircraft's left and right direction remains level.<br>4.When the aircraft flies left or right, the body will tilt in the corresponding direction. The amount you push the stick controls the flight speed; the greater the push, the larger the tilt angle and the faster the flight. |

⚠ • The forward direction of the aircraft is based on the direction of the nose.

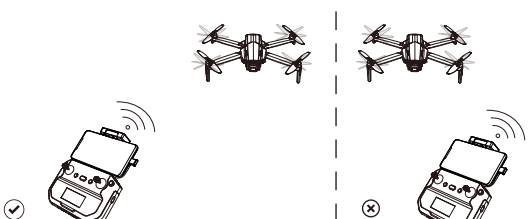
 

### 4.2.6 Smart RTH Button

- Press the smart RTH button on the remote controller to activate the automatic return-to-home function. Press it again to exit RTH. The aircraft will hover in place midway through the return journey when you exit, and you can then use the stick to control the aircraft.

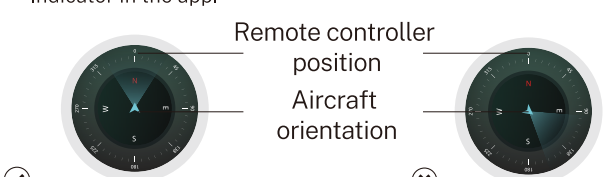
## 4.3 Communication Range

- When operating the aircraft, adjust the position and distance between the remote controller and the aircraft as needed. Aim the remote controller directly at the aircraft to ensure it remains within the optimal communication range.



- The remote controller antenna is located in front of the phone mount. During flight, aim the phone mount directly at the aircraft to achieve the strongest signal transmission.

- User can refer to the aircraft flight direction from the Attitude Indicator in the app.



## 4.4 Remote Controller Pairing

- Before each flight, you need to pair the aircraft with the remote controller. Pairing takes about 20 seconds, and you can only operate the aircraft once pairing is successful. Follow these steps to pair:
  (1)Turn on the aircraft.
  (2)Turn on the remote controller.
  (3)The aircraft and remote controller will pair automatically. During pairing, the remote controller will emit a 'beep-beep' sound. Pairing is complete when the sound stops.

- Once pairing is successful, the aircraft's LED light will change from blinking yellow to a solid red (indicating no GPS signal) or to a solid green (indicating GPS signal acquired).

- Before each flight, check the battery level of the remote controller. The remote controller will emit a warning sound when the battery is low.
- If the remote controller is idle for 10 minutes, it will automatically power off. To resume normal operation, move the joystick or press any button.
- When using the remote controller with a mounted device, make sure the device is securely clamped to prevent it from slipping.
- Store the remote controller with a battery level of around 3.8-3.9V. Charge the battery approximately every month to maintain its health.

# 5 Gleesfun Fly App

## 5.1 Home Screen


**Control**

- Use the buttons on the app interface to control the aircraft and view the live video feed from the aircraft's camera.

**Instruction**

- Tap to view the User Manual, Flight Guide, and Safety Disclaimer, as well as to access the flight instruction videos.

**User Feedback**

- Tap to Call Gleesfun Customer Service Support.

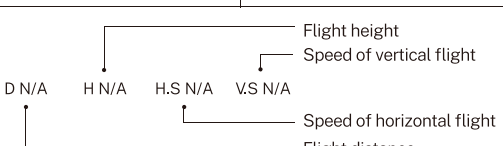
**Support**

- Tap to access the support ticket page (warranty and support), where you can send text, photos, or videos to receive technical assistance.

## 5.2 Control Interface

| | | | |
|---|---|---|---|
| | Back | | Shooting Mode |
| | GPS Status | | Shutter/Record Button |
| | Aircraft Battery Level | | Photo Album |
| | Controller Battery Level | | Attitude Indicator |
| | System Settings | | More Features |
| SD | SD Card | | RTH |
| | Auto Takeoff/Landing | | |



**Remote controller battery level**

- Display the current remote controller battery power, and the power progress bar displays.

**Aircraft status indicator bar**

- In flight: Display the flight status of the aircraft and various warning information.

**GPS status**

- Used to indicate GPS signal strength: 3 bars mean the GPS signal is strong enough for flight, while 1 or 2 bars indicate a weak GPS signal, requiring a change in takeoff location.

**Aircraft battery level**

- Display the current smart flight battery power, and the power progress bar displays.

- Tap the battery icon to view Remote ID information.

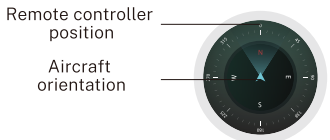

**System settings**

- System settings include flight range settings, data logging, unit switching, displaying flight paths, showing notifications, and configuring voice prompts.

### Attitude indicator

- Displays information such as the aircraft's heading, tilt angle, and the positions of the remote controller and home point.




### More Features

| | | |
|---|---|---|
| | **GPS Follow** | Aircraft will lock onto the user and can track the user's movement as he moves. |
| | **Fly Around** | The aircraft fly around in circle with the current position as the center. |
| | **Route Planning** | Aircraft flies along the path marked on the App. |
| VR | **Split Screen** | VR split screen interface, used with VR glasses. |
| | **Lens Angle** | Adjust the shooting angle of the aircraft camera. |
| | **Recording** | When it is turned on, your video will include ambient sound. |
| | **Night Mode** | Increase the brightness of the live feed in the app during night flights. It is recommended to enable this feature at night or in low-light conditions. |
| | **Zoom** | Optional 5x zoom. |
| | **Filter** | Select a filter for your photo or video. |
| | **Vertical Screen** | Switch the image to vertical to take photos and videos. |

**RTH**

- Tap to initiate Smart RTH and have the aircraft return to the last recorded home point and turn off the motors. Tap it again to cancel the return.

**One-key takeoff/landing**

- After unlocking the motors, tap this icon to make the aircraft take off automatically; tap it again, and the aircraft will land automatically. You can cancel the descent by push up the throttle stick.

**Back**

- Tap to return to the homepage.

## 5.3 Parameter

- Tap the icon ••• to enter parameter interface

- Beginner: In this mode, the aircraft's farthest flight distance and altitude is 30 meters, so that the aircraft can fly more safely within sight.
- Flight distance: Set the longest distance to fly.
- Flight altitude: Set the maximum flight altitude.
- Return altitude: The default altitude of the aircraft during performing a return flight is 20 meters, and it is recommended to set the altitude higher than the height of the surrounding obstacles.
- Storage settings: Option to store video recordings of different resolutions on the SD card.
- Photo Scale: Optional picture shoots with different specifications.
- Auxiliary grid: Different auxiliary lines can be selected to assist in composing the shot.

## 5.4 Track

- Flight time: Total flight time
- Total Flight distance:  Total flight distance
- Flights: Number of flights
- Max mileage: The longest single flight distance.
- Max altitude: The highest single flight altitude.
- Max speed: The fastest single flight speed.
- All flight records: Date, location, distance, duration, and maximum altitude for each flight.
- Find drone: Shows the last known location when the aircraft lost video transmission. Open the map to locate the position where the aircraft disconnected from the app.
- Export Flight Log: Allows you to export flight data. (Flight logs on iPhones are in .txt format, while on Android phones, they are in both .txt and .logbin formats.)