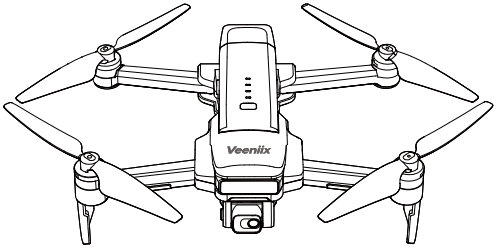
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User Manual



V11

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1 Using This Manual

1.1 Legend

Recommend Warning Importance Hints & Tips

1.2 Read Before the First Flight

- Read the following documents before using Veeniix V11.
  ① *User Manual*
  ② *Flight Guide & Safety Disclaimer*

- It is recommended to watch all the guide videos and read the *Quick Guide & Safety Disclaimer*, before using for the first time.

1.3 Download the App

- **Scan** the QR code or **Search** in the application store to download **"Veeniix Fly"**.

  Make sure to download the Veeniix Fly before using V11.

(iOS App Store) (Google Play)

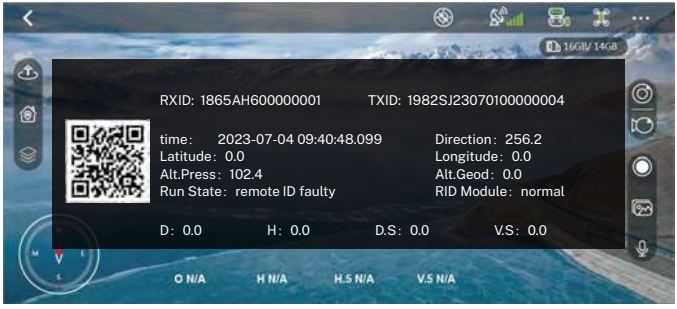
- Veeniix Fly is compatible with Android 6.0 or above, iOS 10.0.2 or above, dual-band Wi-Fi (2.4GHz and 5.8GHz) phones.

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1.4 FAA Remote ID Registration Process

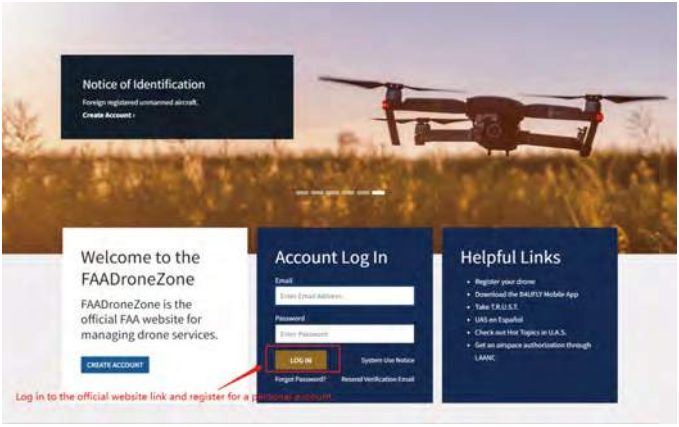
- You can check the serial number of the drone in two ways.
  ① RID-compliant labels on the drone.
  ② Successfully matched drone with remote control---Insert the data cable---enter “Veeniix Fly” app---enter CONTROL page---click the power icon in the upper right corner---the RID information will pop up.

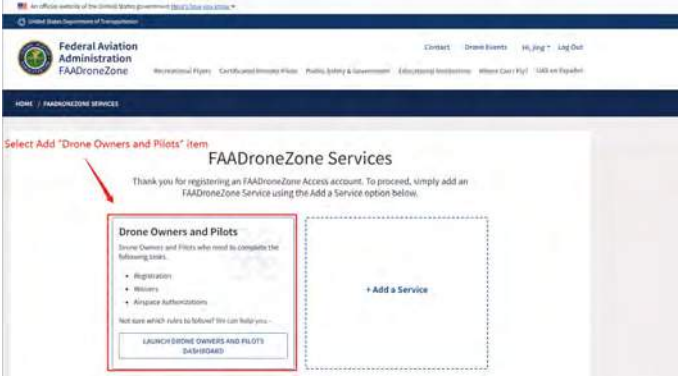




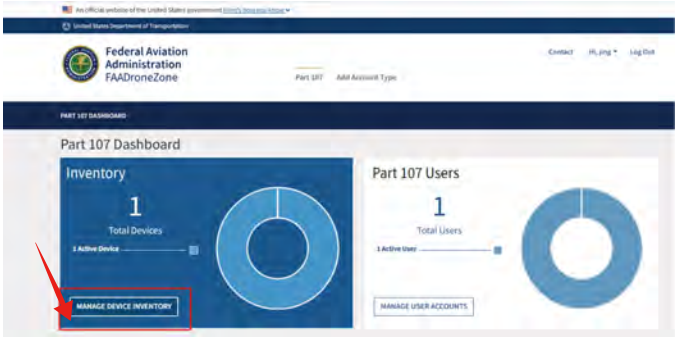
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- Registration
  ① Please go to https://uasdoc.faa.gov/login
  ② Please complete and submit the information following these steps.



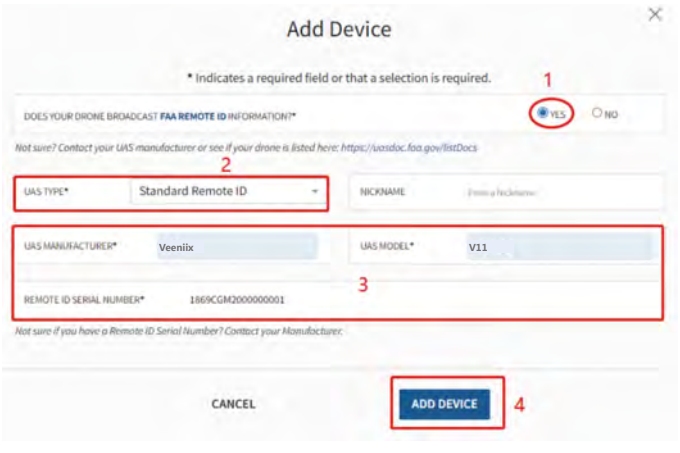


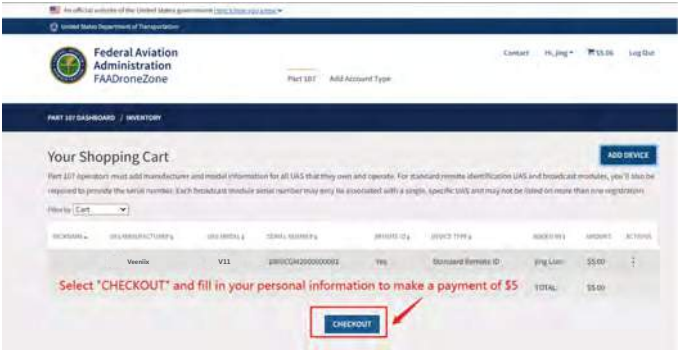
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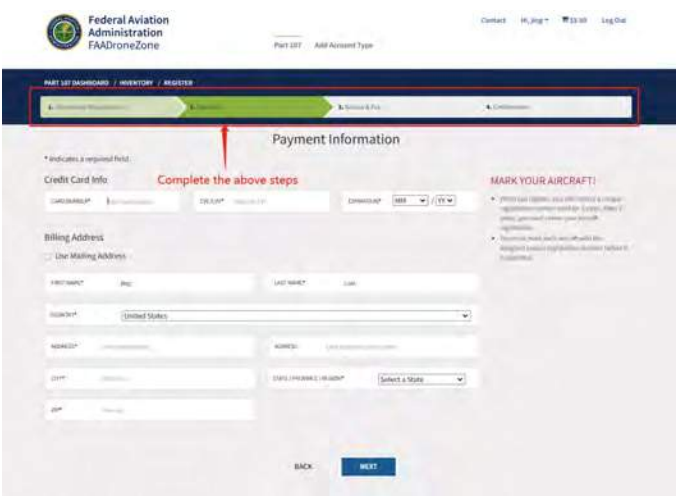


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- The drone will start broadcasting the FAA remote ID signal when all of the following conditions are met.
  ① The drone has built-in Remote ID functionality.
  ② The drone is within airspace of the United States.
  ③ The drone’ s motors began to spin.

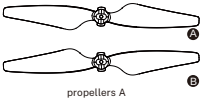
1.5 Video Tutorials

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

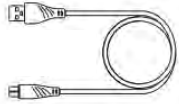
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2 Product Overview

2.1 Packing list



propellers A
propellers B



Type-C USB charging cable



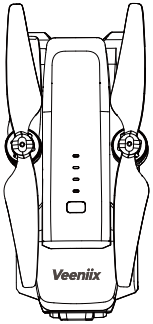
RC Cable (USB-C connector)



RC Cable (Micro USB connector)



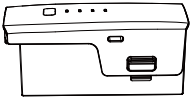
RC Cable (Lightning connector)



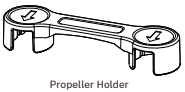
Aircraft



Remote controller



Intelligent Flight Battery



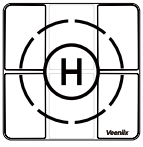
Propeller Holder



Gimbal Cover



Spare Joysticks

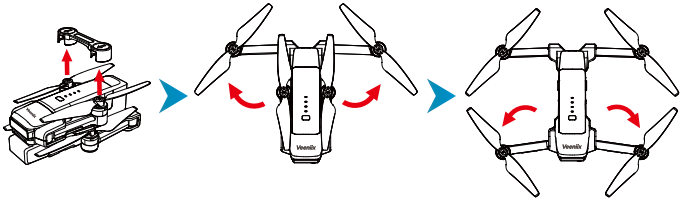


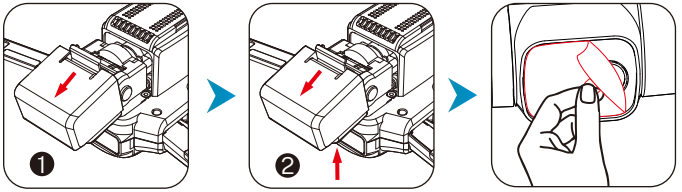
Landing Pad

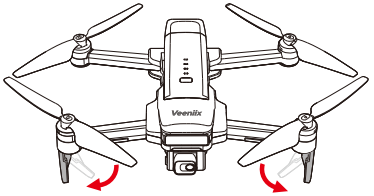
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2.2 Preparing the Aircraft

• All aircraft arms are folded before the aircraft is packaged. Follow the steps below to unfold the aircraft.







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• 1.Remove the propeller holder.

2.Unfold the front arms.

3.Unfold the rear arms.

4.Remove the gimbal cover from the camera.
① Open the buckle of the gimbal cover.
② Pull the cover up slightly and gently remove it.

5. Peel off the camera's protective film.

6. Unfold the front arms' landing gear.

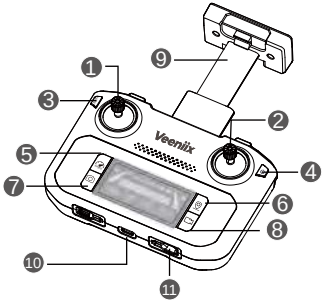
⚠ • Make sure to unfold the front and rear arms first, then unfold the front arm landing gear. (the aircraft signal antennas are mounted in the landing gear, which may affect signal reception if not unfolded)

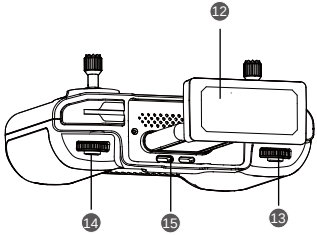
• Remove the gimbal cover from the camera before starting the aircraft.

• Make sure that the aircraft is placed on level ground and all the arms are unfolded before turning on the aircraft.

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2.3 Remote Controller Diagram





1.Left Joystick
The left joystick is the throttle stick which controls the aircraft up/down, left rotation/right rotation.

2.Right Joystick
The right joystick is the directional stick which controls the aircraft forward/backward, fly left sideways/ fly right sideways.

3.Emergency Stop
Press once and then long press for 3 seconds to trigger an emergency stop, the aircraft will lose power and drop in place. (DO NOT use unless it is an emergency.)

4.Power Button
Press once to check the current battery level. Press once and then long press to turn on the remote controller.

5.Flight Mode Switch/ Indoor Mode
Press once to switch between Camera mode, Normal mode, and Sport mode. The default is normal mode.
Long press for 3 seconds to turn off GPS mode and switch to indoor mode. (GPS mode is on by default, please do not turn it off when flying outdoors to avoid losing the aircraft.)

6.Return to Home (RTH) Button
Press the button to initiate RTH. The aircraft returns to the last recorded Home Point (Due to GPS signal issues, the landing position may deviate slightly from the Home Point, within a radius of about 3 meters). Press again to cancel RTH.

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7.Shutter/ Auxiliary Light
Press once to take a photo. Long press the button for 3 seconds to turn on or off the auxiliary light.

8.Record
Press once to record a video.

9.Mobile Device Holder
Used to securely mount the mobile device to the remote controller.

10.USB-C Port
For charging the remote controller.

11.Joysticks Storage Slot
For storing the control joysticks.

12.Antenna
Relay aircraft control and video wireless signals.

13.Camera Zoom
Controls the camera zoom in and out.

14.Gimbal Dial
Controls the tilt of the camera.

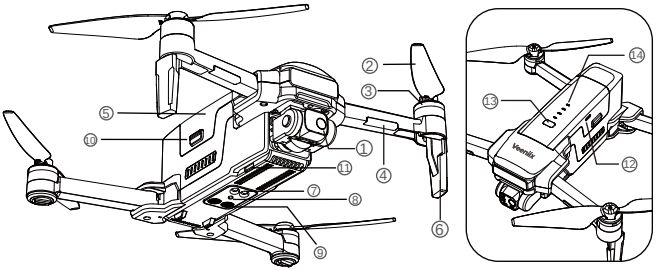
15.Remote Controller Cable
Connect to a mobile device for video linking via the remote controller cable. Select the cable according to the mobile device.



1.Long-distance Version
2.Remote Controller Battery
3.GPS signal strength
4.Remote Control Signal Strength
5.Shutter/Record
6.Speed
7.Status Display
8.Aircraft Battery Level
9.Distance
10.Height
11.Distance Speed
12.Vertical Speed

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2.4 Aircraft Diagram



1.Gimbal and Camera

2.Propellers

3.Motors

4.Aircraft Status Indicator

5.Intelligent Flight Battery

6.Landing Gears
(Built-in antennas)

7.Auxiliary Light

8.Optical flow camera

9.Ultrasonic module

10.Battery Buckles

11.MicroSD Card Slot

12.USB-C Port

13.Power Button

14.Battery Level LEDs

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3 Aircraft

• Veeniix V11 aircraft is mainly composed of flight control system, communication system, vision system, propulsion system and intelligent flight battery. This section will introduce the functions of each part in detail.

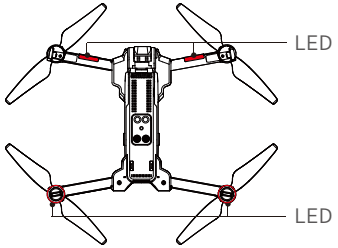
3.1 Flight Modes

• Veeniix V11 has three flight modes can be switched via the Flight Mode Switch on the remote controller.

⚠
- Aircraft defaults to Normal mode and should be switched to Sport mode when the wind is strong to improve the wind resistance.
- When flying in Sport mode or in windy conditions, user should reserve at least 3m or more braking distance to ensure flight safety.
- When flying in sport mode, the power of the aircraft is greatly increased, and a small operation of the joysticks on the remote controller will cause the aircraft to make a large movement. In actual flight, the user should leave enough space to ensure flight safety.

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3.2 Aircraft Status Indicator



- V11 aircraft status indicator is located above the nose landing gear and shows the current status of the flight control system. Refer to the table below for more information about the aircraft status indicator.

	Color	Action	Aircraft Status
Aircraft	Red	Solid	Connecting to the remote controller
	White&Blue	Blinks Slowly	GPS searching
	Pink	Blinks Quickly	Compass calibration required
	White&Blue	Blinks Quickly	Gyroscope Calibration automatically
	White&Blue	Solid	Ready to fly
	Red	Blinks Slowly	Low battery

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3.3 Return to Home (RTH)

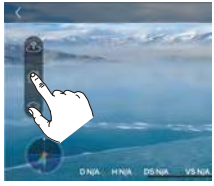
• The Return to Home (RTH) function brings the aircraft back to the last recorded Home Point and lands when the GPS signal is strong. There are three types of RTH: Smart RTH, Low Battery RTH, and Signal Disconnection RTH. If the aircraft successfully recorded the Home Point and the GPS signal is strong, the RTH will be triggered when either the user starts Smart RTH, the aircraft battery level is low, or the signal between the remote controller and the aircraft is lost.

	GPS	Description
Home Point		1.When flying outdoors, the GPS signal icon is displayed with 3 bars or more. 2.The default Home Point is the first location where the aircraft received a strong or moderately strong GPS signal. 3. During the flight, if the aircraft lands at a new location, the point from which it retook off will become the latest Home Point, and the aircraft will return to the latest Home Point.

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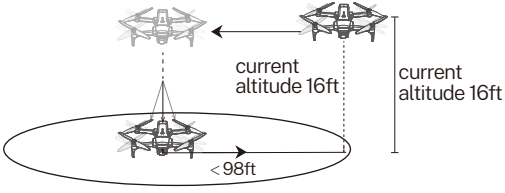
Smart RTH





- When the user wants the aircraft to return home automatically, the user can click the RTH button on the remote controller, or click the icon on the App.
- During the return descent, the user can control the aircraft to avoid obstacles.
- Press the RTH button on the remote controller or click the icon on the App again to cancel the RTH. After cancelling the RTH, the user can regain control of the aircraft.

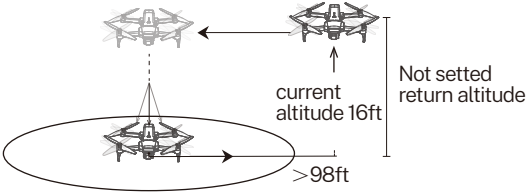
⚠ • If the aircraft is less than 98ft (30m) from the Home Point when RTH begins, it will fly to the Home Point at its current altitude. (Pay attention to maintain the altitude and avoid hitting people or obstacles.)Refer to Figure 1.



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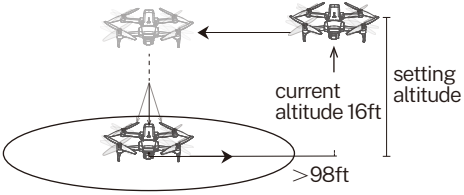
⚠ • If the aircraft is more than 98ft (30m) from the Home Point when RTH begins, and is flying below 65ft (20m) without setting a return altitude, it will automatically rise to the default return altitude of 65ft (20m) then fly to the Home Point. Refer to Figure 2.

Figure 2.



⚠ • If the aircraft is more than 98ft (30m) from the Home Point when RTH begins, and set a return altitude, if the aircraft is flying below the set altitude, it will rise to the set return altitude and then fly to the Home Point, if the aircraft is flying exceed the set return altitude, it will fly to the Home Point at its current altitude. Refer to Figure 3.

Figure 3.



⚠ • The aircraft is not equipped with an obstacle avoidance function. During the flight, please judge the flight situation reasonably, avoid obstacles in time, and set the corresponding flight and return height according to the flight environment.

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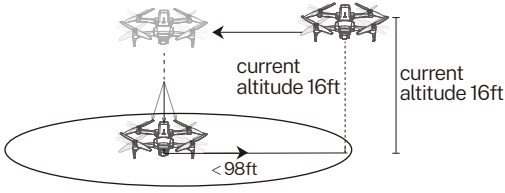
Low Battery RTH

- When the intelligent flight battery level is too low, the user should land the aircraft as soon as possible to avoid damage to the aircraft or other dangers.

- In order to prevent unnecessary dangers due to insufficient battery level, when the aircraft battery level is low, the Low Battery RTH will be automatically triggered. According to the remaining power after returning, there are 2 situations after returning:

1. First-level low battery: the aircraft returns to the point 98ft (30m) above the latest Home Point and hover. After hovering, the user can continue flying the aircraft at altitude of 98ft (30m) and within a radius of 98ft (30m).

2. Second-level low battery: the aircraft will fly directly above the latest Home Point from its current altitude and then descend to the ground.



⚠
- Must pay attention to the flight altitude when the battery level is low. Avoid hitting obstacles due to the low flying altitude when returning home with the second-level low battery.

- The remaining battery power after returning is related to the return distance, wind speed, and wind direction.

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Signal Disconnection RTH



- If the Home Point was successfully recorded and the compass is functioning normally, Signal Disconnection RTH automatically activates when the remote controller is turn off or signal lost for more than 6 seconds.
- If the signal is recovered during the RTH, the aircraft will stop returning and rebind with the remote controller signal, and the user can control the aircraft again at this time.

Automatic Return to Home process when signal is lost:

1. Aircraft stores its position when taking off after the GPS signal is successfully received, and records it as the Home Point.

2. Trigger RTH (triggered by low battery of remote controller, signal loss, etc.).

3. After triggering the RTH, the aircraft adjusts the nose direction and starts to return to the latest Home Point.

4. The aircraft automatically flies over the latest Home Point, then starts to land, and completes the home return.

⚠
- When Signal Disconnection RTH, the aircraft cannot avoid obstacles.
- When the GPS signal is weak, the aircraft cannot return to home automatically.

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3.4 Ultrasonic & Auxiliary Light

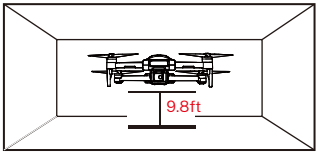
- The bottom of the aircraft is equipped with ultrasonic module, auxiliary light and optical flow camera, which provides the aircraft with better adaptability to the environment.

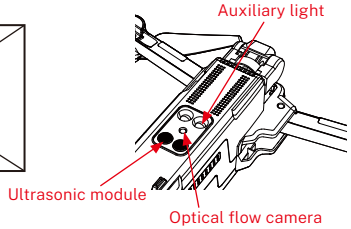
- The ultrasonic module is composed of a pair of ultrasonic sensor modules (1 sending and 1 receiving). Ultrasonic sensors can measure the altitude of the current aircraft through ultrasonic waves, making the low-altitude flight and landing of the aircraft more stable.

- The optical flow camera can recognize scenes on the ground and help the aircraft maintain its current position, hover more precisely, and fly indoors or in other environments where GPS is not available.

- Long press the Shutter on the remote controller for 3 seconds to turn on/off the auxiliary Light.

- When the light is dim in optical flow mode, turning on the auxiliary light assists in positioning.





⚠ • Ultrasonic is less effective on highly absorbent surfaces (e.g. thick carpets, lawns).

• Auxiliary light provides illumination at close range which accelerates the power consumption of the intelligent flight battery.

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(1) When GPS is unavailable, the optical flow camera is enabled if there has a discernable surface and sufficient light. This function can only assist flight, but cannot completely replace the user judgment. Please pay attention to the aircraft situation and APP tips, do not overdependence.

(2) The optical flow camera cannot work properly over surfaces that surfaces that do not have clear pattern variations. The optical flow camera cannot work properly in any of the following situations. Operate the aircraft cautiously.

a. Flying over monochrome surfaces (e.g., pure black, pure white, pure green).
b. Flying over highly reflective surfaces.
c. Flying over water or transparent surfaces.
d. Flying in an area where the lighting changes frequently or drastically.
e. Flying over extremely dark surfaces.
f. Flying over surfaces that strongly reflect (e.g., mirrors).
g. Flying over surfaces without clear patterns or texture.
h. Flying over surfaces with repeating identical patterns or textures (e.g., tiles with the same design).

(3) The optical flow camera works best when the aircraft is at an altitude from 0.5 to 3m. If the altitude of the aircraft is above 3 m, the optical flow camera may be affected, so extra caution is required.

(4) Keep the sensors clean at all times. DO NOT tamper with the sensors. Make sure there are no stickers or any other obstructions over the optical flow camera.

(5) The optical flow camera can only be used in indoor mode, and the aircraft automatically switches to GPS mode when it successfully searches for signals outdoor.

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3.5 Intelligent Flight Modes

• Veeniix V11 has three intelligent flight modes to meet the user's shooting needs: Waypoints Flight, Point of Interest, GPS Follow.

⚠
- The intelligent flight modes can only be operated through the Veeniix Fly App, please make sure to download and install Veeniix Fly before use.
- The mobile phone must be connected to the remote controller cable before using the intelligent flight modes.
- The Intelligent flight only works when the GPS signal is strong.
- Please avoid high buildings, trees, and areas where Wi-Fi signal might be interfered.
- Aircraft is not equipped with obstacle avoidance function. Please use it in open areas free of obstacles.

Waypoints Flight

• The aircraft flies follows the path of the points marked on the App.



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1. Make sure you have downloaded and installed the Veeniix Fly App and that your phone is connected to the remote controller.

2. Launch aircraft and ensure flight height is higher than the nearby obstructions.

3. Click the icon  on the App to enter the Waypoints Flight.

4. Mark interested of points (up to 16) which you plan to fly on App map's within the circle (limited flight range).

5. Confirm the marked points are correct and click the go icon, the aircraft will start Waypoints Flight.

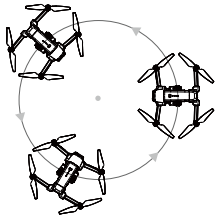
6. Click  to reset the marked point. click the icon on the App again or operate the right joystick to exit the Waypoints Flight.

⚠
- Make sure the map is loaded before launching the aircraft.
- Click the icon on the App again or operate the right joystick to exit the Waypoints Flight.

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Point of Interest

- In this mode, the aircraft will fly around the target center point with a radius. The right joystick push forward/backward to control the radius of the aircraft's circle of 16ft-328ft (5-100m), and push left/right controls the direction and speed of the aircraft's circle, that is, the aircraft will fly around counterclockwise/clockwise.



16ft-328ft (5-100m)

1. Make sure you have downloaded and installed the Veeniix Fly App and that your phone is connected to the remote controller.

2. Launch the aircraft and make it hover around the target center point.

3. Click the icon  on the App to enter the Point of Interest, and the aircraft will start flying around the center.

4. Click the icon on the App again to exit the Point of Interest.

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- Circling radius range:

  1. APP can be set 5-30 meters circle radius, need a larger radius range can be set through the remote control joystick.

  2. Operate the right joystick forward and backward to set the aircraft's circle radius range from 5 to 100 meters.

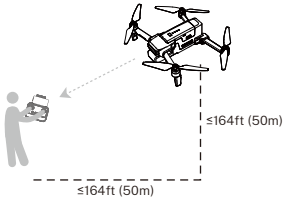
- Circling speed: The maximum speed is 1.5M/S, and the direction and speed can be changed by operating the right joystick left or right.

- During the circling process, tap the point of interest button can cancel, and if you need to return to the aircraft, you can directly click RTH to return the aircraft.

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GPS Follow

- In this mode, the aircraft will lock on to the user's phone and can track user's movement. It works within a radius and height of 164ft (50m) after you turn on the positioning function of your phone.



1. Make sure you have downloaded and installed the Veeniix Fly App and that your phone is connected to the remote controller.

2. Launch the aircraft and make sure the flying range within 164ft (50m) for best effect.

3. Click the icon  on the App to enter the GPS Follow.

4. The aircraft will follow the movement of the mobile phone. Please make sure that the mobile phone and the remote controller are together so that the user can operate the aircraft in the first time.

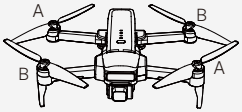
5. Click the icon on the App again or operate the right joystick to exit the GPS Follow.

⚠
- The follow function can only work within a radius and height of 164ft (50m), and it will not be available beyond the specified range.
- To use this function, the positioning function of the mobile phone must be turned on, otherwise the follow mode can't be realized.

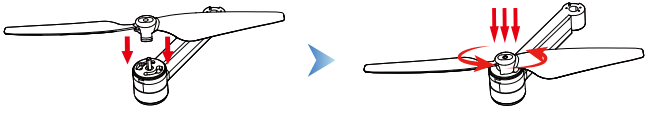
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3.6 Propellers

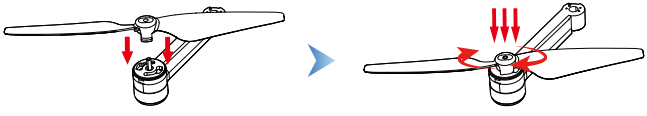
- The adjacent propellers on the motors of the Veeniix V11 are forward and reverse propellers, the propellers are marked with A and B respectively, different marked propellers rotate in different directions.

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

Attaching the Propellers



"Attahcing Propeller A"



"Attahcing Propeller B"

- Place the aircraft horizontally and make sure that the aircraft's camera faces forward;

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- Propeller A: Attach the propellers with mark A to the left front and right rear motors. Press the propellers down onto the motor and turn counterclockwise until they are secure;

- Propeller B: Attach the propellers with mark B to the right front and left rear motors. Press the propellers down onto the motor and turn clockwise until they are secure.

Detaching the Propellers



“Detahcing Propeller A”



“Detahcing Propeller B”

- Propeller A: Press the propellers A of the motor and turn clockwise.

- Propeller B: Press the propellers B of the motor and turn counterclockwise.

⚠
- Please use the propellers provided by Veeniix, 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.

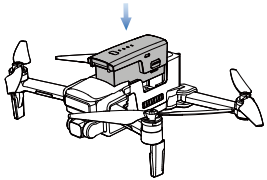
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3.7 Intelligent Flight Battery

- Veeniix V11 intelligent flight battery has a capacity of 3500mAh, a rated voltage of 11.1V, and with charge and discharge management functions. This battery uses high-energy and large-capacity batteries to increase the flight time of the aircraft.

Using the Intelligent Flight Battery

- Install the intelligent 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.



Install the battery

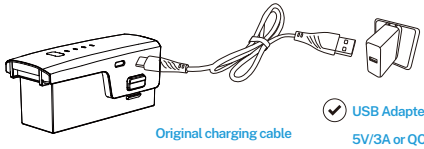
- To remove the battery, press the buckles on both sides of the battery and pull it out of the battery compartment.

⚠
- 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 power must be turned off when installed or removed.

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Charging the Intelligent Flight Battery

• Before using the intelligent flight battery, be sure to fully charge it.



1. Please use a 5V/2A or 5V/3A USB charging plug. Also support QC 3.0 18W fast charge.

2. 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.

3. After charging is complete, please remove the charger in time.

• Charging time: When charging with a 5V/2A or 5V/3A plug, it takes about 4.5 hours to fully charge. When charged with a QC 3.0 18W plug, it takes about 3 hours to fully charge.

• Suggestions for battery preservation:
1. It is recommended to use once a month. When you were not going to fly the aircraft for a while please do not fully charged the battery, just keep 50%-60% of the power. The best storage temperature is 66-69℉.

2. Do not use the battery in the rain/snow or wet environment (including light rain and snow). If the battery is wet, the positive and negative poles will be short-circuited, and the battery protection plate will fail, which will cause the battery not to work well.

3. If the battery is squeezed and deformed or dropped from a height, it is prohibited to use again.

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4. Prolonged exposure to high temperature is prohibited. High temperature will cause the internal pressure of the battery is too high and thus cause an explosion.

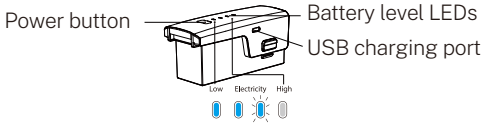
5. When not flying the aircraft for a long time, please remove the battery to avoid a long time of low electric discharge state.

- The new batteries of the aircraft needs to be charged and discharged 3 times to fully activate the lithium ions inside the battery and achieve the longest endurance.
- Please check the battery power and fully charge before each flight.
- Please remove the battery from the aircraft when charging.
- It is prohibited to charge for a long time or use a charger that exceeds the rated power of the battery.

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Checking Battery Level

- Press and hold the power button, after the indicator light turns on to the fourth, release the power button to check the current battery level.



⚠
- Auto-Discharging Function: V11 Intelligent Flight Battery is equipped with Auto-Discharging Function to prevent swelling, it automatically discharges to Approximate 85% of the battery level when it is idle for 2-3days. After Auto-Discharging, the surface of the power button will have heat, which will cause the flight time to be shortened by about ten minutes.

- Low Temperature Environment Notice:
  1. When using the battery in a low-temperature environment (32℉-41℉), make sure that the battery is fully charged. Battery working in a low temperature environment will reduce the discharge capacity.

  2. In a low-temperature environment, due to the battery output power limitation, the aircraft's wind resistance and flight performance will be reduced. You need to be more cautious when flying in low-temperature and high-altitude environments.

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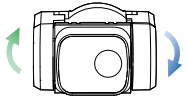
3.8 Gimbal and Camera Overview

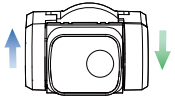
Gimbal and Camera Profile

- The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with 2-Axis Gimbal 4K EIS, 100° FOV lens and a 80° adjustable camera, which can stably shoot 4K ultra-clear videos and images, providing the user with a broad field of vision for unforgettable moments.

Gimbal Self-inspection

- V11 gimbal has two-axis mechanical stabilization + EIS, with mechanical stabilization in the roll and pitch axis and EIS in the yaw axis.

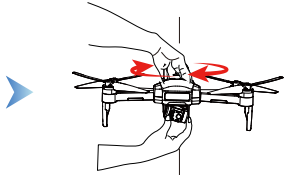




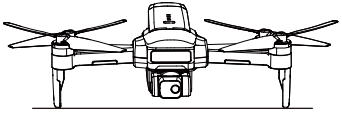
- When the gimbal is not powered on or having compass calibration, it will not work and is in tilt state, which is a normal situation. After power on and calibration is completed, the gimbal will automatically self-inspection for about 20 seconds, and the gimbal is in horizontal self-stabilization state.



(Figure 1: Before power on)



(Figure 2: During compass calibration)

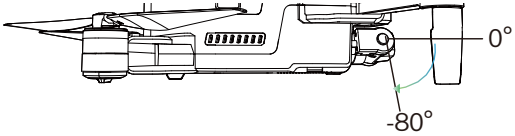


(Figure 3： Compass calibration is completed)

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⚠
- Gimbal is a movable mechanical structure, the tilt state before power on is a normal situation.
- Gimbal will fail the self-inspection when it touches the grass or something, use the landing pad or cardboard to avoid the gimbal bumping into something.
- Aircraft on the wooden floor, roadside, table will conduct some resonance, will cause the gimbal self-inspection failure. Stay away from the place of vibration, use it in the place of no vibration.
- Gimbal by human external interference, or pick up, will lead to gimbal self-inspection failure. Gimbal self-inspection time is about 20 seconds, the process should avoid touching.
- Gimbal cannot work during compass calibration. Put the aircraft on a level surface after calibration, then the gimbal will start to work after 20 seconds.

Camera Profile

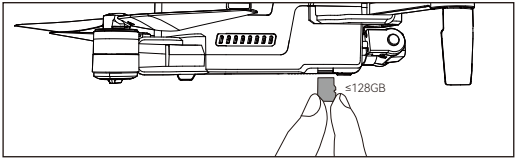


- The aircraft camera angle can be adjusted from -80° to 0°.
  Image output format: JPG
  Video output format: MP4

CONFIGURATION	STORAGE		RESOLUTION	TRANSMISSION FRAME RATE
V11	Phone	Photo	3840X2160P	
		Video	1280X720P	30fps
	SD card	Photo	3840X2160P	
		Video	3840X2160P	30fps

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Storing Photos and Videos



• V11 is equipped with a MicroSD Card Slot for storage expansion.

1.Card speed: 10M/s.

2.File format: support FAT32 format.

3.Capacity: SD cards with less than or equal to 128G memory capacity.

SD cards can be formatted within the App.

⚠
- Check whether the capacity of the SD card is sufficient. If the capacity of the SD card is insufficient, videos and pictures cannot be stored.
- If you cannot save pictures or videos, try formatting the memorycard and choose FAT32 format.
- After the SD card is installed, the photo and video files will be stored both in the SD card and the phone.
- Photos and videos stored on the drone SD card can be copied or downloaded to the phone.
- To end the recording video, you need to click the recording button again, otherwise the video may be damaged or lost.

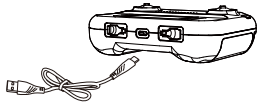
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4 Remote Controller

4.1 Charging the Controller



≤15W Adapter
USB Adapter (Not included)



Charging Time: About 2 hours



The Remote Control Is Charging



Fully Charged With Remote Control

⚠ • Connect the remote controller Micro USB-C Port to the charger for charging. Please note: Never overcharge.

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4.2 Emergency Stop



- Click once and hold the STOP for **3 seconds** to enter into Emergency Stop mode. It only activated when the drone's flight altitude within 42ft(13m).

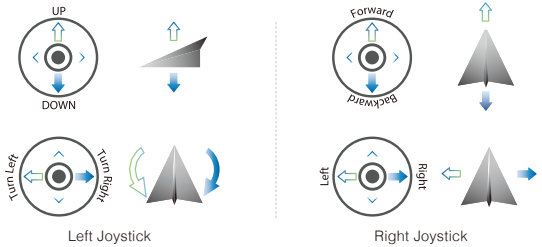
⚠ • By using this function the drone motor will stop working immediately thus fall to the ground, which might cause damage. Only use this feature when in emergency so as to reduce the risk of damage or injury.

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4.3 Controlling the Drone

- **Remote Controller Stick Mode-Mode 1 (Default Mode)**

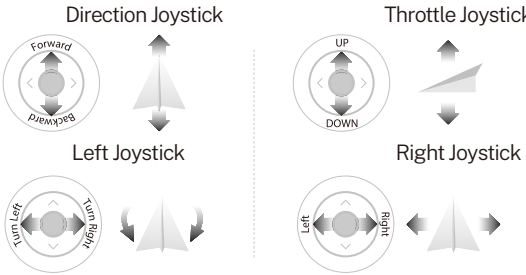
American hand's control (Default Mode 1)



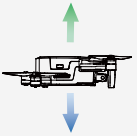
- **Switch Remote Controller Stick Mode--Mode 2**



Power off the remote control.
Keep pressing the , then press once and long press the (press once indicating the power level, long press the remote control beeps three times and power on, LED screen indicates "RHAND MODE".)



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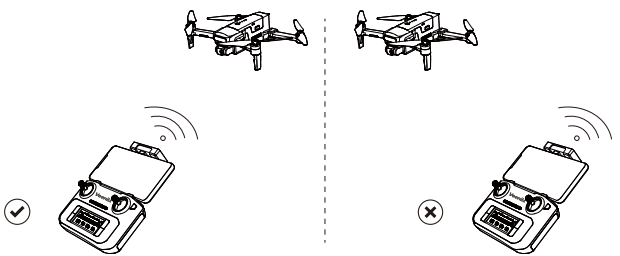
Remote Controller (Default Mode1)	Aircraft	Remarks
		Moving the left joystick up or down changes the aircraft's altitude. Push the joystick up to ascend and down to descend. The more the joystick is pushed away from the center position, the faster the aircraft will change altitude. Push the joystick gently to prevent sudden and unexpected changes in altitude.
		Moving the left joystick to the left or right controls the orientation of the aircraft. Push the joystick left to rotate the aircraft counter-clockwise and right to rotate the aircraft clockwise. The more the joystick is pushed away from the center position, the faster the aircraft will rotate.
		Moving the right joystick up and down changes the aircraft's pitch. Push the joystick up to fly forward and down to fly backward. The more the joystick is pushed away from the center position, the faster the aircraft will move.
		Moving the right joystick to the left or right changes the aircraft's roll. Push the joystick left to fly left and right to fly right. The more the joystick is pushed away from the center position, the faster the aircraft will move.

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- The forward direction of the aircraft is based on the direction of the nose.
- The default mode is Mode 1 American hand's control.
- When you need the Japanese hand's control, you need to switch in the above way. Once the aircraft restarts, it will change back to the American hand's control.

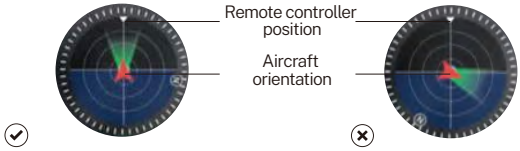
4.4 Optimal Transmission Zone

- The signal between the drone and the remote controller is most reliable when the antennas are positioned in relation to the aircraft as shown below.



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• Install the mobile phone into the mobile device holder, refer to the aircraft flight direction of the attitude indicator in the App, and the attitude indicator points straight ahead (perpendicular to the coordinates), indicating that the remote controller is facing the aircraft.



⚠ • The antenna of the remote controller is installed in the front of the mobile phone stand, and the best communication effect can be achieved by facing the direction of the aircraft when flying.

• The aircraft antennas are installed in the landing gears, and the front landing gears must be opened before flight to achieve the best communication effect.

• Please fly in an open and unobstructed area. Radio signal recovery will interfere with the surrounding environment or obstructions.

• Fly the aircraft to its highest altitude when flying long distances.

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5 Veeniix Fly App

5.1 Home

• After running Veeniix Fly, enter the homepage.



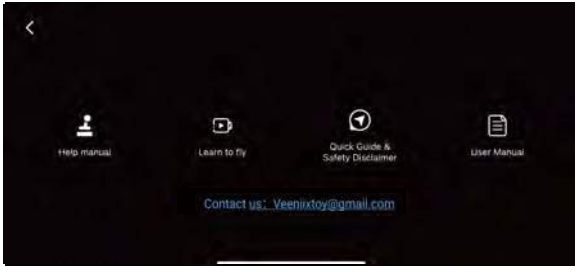
Control

• Control the aircraft through the App page buttons to realize the functions of the aircraft.

Guide

• Click GUIDE to view the help manual, learn to fly, safty disclaimer, quick guide, quick start.

• Check out the flight instructions for V11 on Veeniix YouTube channel.



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5.2 Camera View



1.Aircraft Status Indicator Bar
In flight: Display the flight status of the aircraft and various warning information.

2.Compass Interference Value
It shows the interference value of the compass. When the environmental interference is too large, it will prompt the compass to be disturbed in the aircraft status indicator bar.

3.System Settings
System settings include flight range settings, data recording, English and metric unit switching, route display, reminder information and voice prompt settings.

4.Attitude Indicator
Display information of the orientation of the aircraft, and position of the remote controller.

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	Back		GPS Status
	Controller Battery Level		Aircraft Battery Level
	Auto Takeoff		Return to home
	Landing		Shutter/Record Button
	Shooting Mode		recording
	Photo Album		
	Compass Interference Value	A higher value indicates greater ambient interference . Reaching 120 will prompt compass calibration, and reaching 180 will force entry into compass calibration	
	D 0.0m H 0.0m DS 0.0m/s VS 0.0m/s	D : Distance H : Height DS : Distance speed VS : Vertical speed	
	1 . SD card capacity display 2 . Format : When loading the SD card cannot recognize or save the file,click to format it		

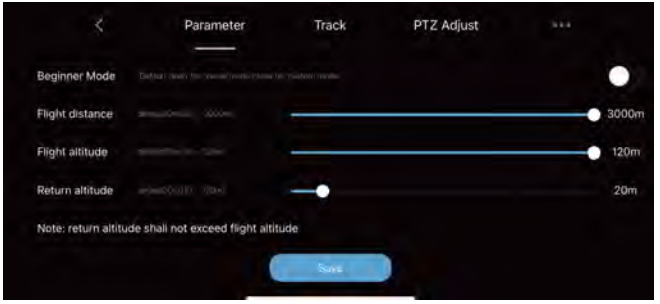
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More Features		Click for more features.
GPS Follow		Refer to page 30 for detail explanation
Image Follow		The aircraft camera will slowly rotate to follow the target
Music		Select music for the video
VR Split Screen		VR split screen interface , used with VR glasses
Lens Angle		Adjust the shooting angle of the aircraft camera
Point of Interest		Refer to page 28 for detail explanation
Ges photo		Recognize your gestures and automatically take photos
Ges record		Click to recognize your gesture automatically record
Waypoints Flight		Refer to page 26 for detail explanation
Filter		Select a filter for your photo or video
Camera zoom		Optional 5x zoom

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Parameter

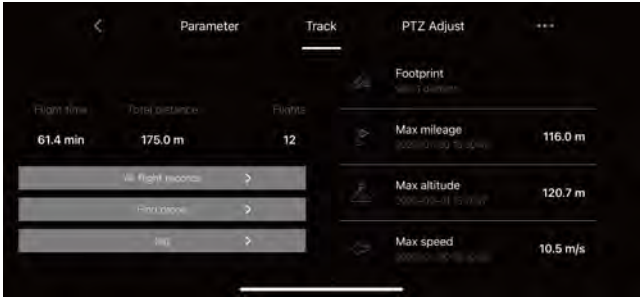
- Beginner mode: In this mode, the maximum flight distance and altitude of the aircraft is 98ft (30m), and the return altitude is 65ft (20m), so that the aircraft can fly more safely within sight. To set a longer distance and higher altitude, please exit the beginner mode.
- Flight distance: Set the maximum distance of flight.
- Flight altitude: Set the maximum altitude of flight.
- Return height: The default height of the aircraft during the course return is 65ft (20m). It is recommended to set the height higher than the surrounding obstacles.



Track

- Footprint: Total number of aircraft flying area.
- All flight records: The date, location, distance, duration and maximum altitude of each flight.

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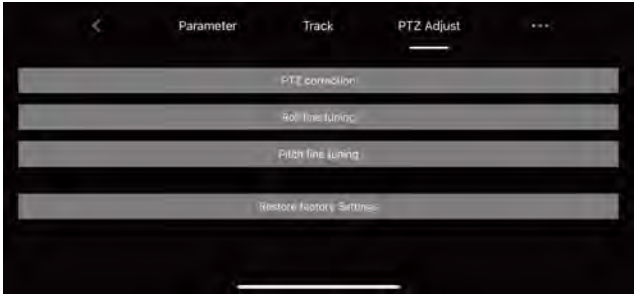


- Find drone: It shows the last position of the aircraft when it lost the image transmission signal. Open the map to find the position where the aircraft is disconnected.

- Log: You can export the flight log data.

PTZ Adjust

- When the horizontal Angle of the aircraft gimbal deviates, the user can fine-tune or correct the Angle of roll and pitch Angle, and the need to place the aircraft horizontally when correcting or fine-tuning. Or restore factory settings.

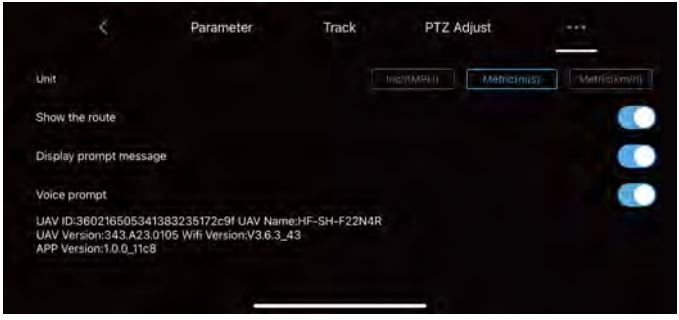


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More Settings

- Unit: Switch between metric and imperial measurement units.
- Show the route: Turn on or off the App flight path record.
- Display prompt message: Turn on or off the App status bar to display the information.
- Voice prompt: Turn on or off the aircraft status voice prompt of the App.
- Flight firmware upgrade: An upgrade will be automatically displayed when a new flight firmware is released. Normally, no upgrade is required.
- **Wi-Fi & UAV Version:** It only shows when it's connected to the aircraft and remote controller.

App Version



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⚠ • Before using the Veeniix Fly App, please correctly enable the required permissions for the App:

1.Allow Veeniix Fly to get your location. Otherwise, the following functions cannot be realized.

2.Veeniix Fly pops up the Settings option after connecting the data cable correctly.

3.Allow Veeniix Fly to access to albums, recordings and other permissions.

• When using the Veeniix Fly on your phone, please keep your phone running smoothly and close other background software that you do not use.

• The map used in the map interface needs to be downloaded from the Internet. Before using this function, please connect the mobile phone to the internet to cache the map.

• Please download the correct Veeniix Fly App, otherwise it will not work with the aircraft.

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6 Flight

- After the installation preparation is complete, please conduct flight training first. It is recommended to conduct training in the beginner mode. Please choose a suitable flight environment when flying. The flight altitude is limited to 393ft, and the local laws and regulations must be strictly observed during flying. Please be sure to read the Veeniix V11 *Flight Guide & Safety Disclaimer*, and understand the safety precautions before flying.

6.1 Flight Environment Requirements

1. Do not fly in severe weather such as strong wind, snow, rain, and fog.

2. Choose an open place with no obstructions around as the flying field. The compass and GPS signals on the aircraft will be interfered by buildings, mountains, and trees. It is recommended to fly in an open area with a diameter of 32ft without interference. It is recommended that the flight altitude be greater than 49ft to avoid ground obstacles and other signal interference from the ground.

3. When flying, keep in sight and control, and stay away from obstacles, crowds, etc. When flying on the water surface, please be more than 9ft above the water surface.

4. The remote controller may be interfered by high-voltage lines, communication base stations or transmission towers. Please fly away from these areas.

5. Please fly below 13123ft above sea level to ensure that the air pressure setting function of the aircraft can work normally.

6. When GPS is active, the aircraft can achieve stable hovering, return to home, and intelligent flight. When the GPS function fails, these functions cannot be implemented. The aircraft will be unable to hover, drifting away in the direction of the wind.

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6.2 Pre-Flight Checklist

1. Make sure the remote controller, Intelligent Flight Battery, and mobile phone are fully charged.

2. Make sure that the aircraft arms and landing gears are fully extended. Make sure that the battery compartment cover is fastened firmly and the intelligent flight battery is installed firmly.

3. Make sure that the propellers are free from damage, aging, deformation, no foreign matter entanglement, and secure installation.

4. Make sure that GPS is turned on to avoid that it would be lost when flying outdoor in an open area.

5. Make sure to select an Appropriate data cable to connect the remote controller and the mobile phone, allowing all the pop-up permission.

6. Make sure the GPS search is complete and 4 motors can start normally after power-on, and the rotation speeds are consistent.

7. Make sure to peel off the camera protective film and the camera is clean.

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6.3 Pairing remote controller with Aircraft

- Aircraft needs to carry out a series of calibration before flying, the main purpose is to avoid the accident that the aircraft loses control and crashes caused by the inaccurate GPS signal during the flight.

- The steps for the pairing are as follows:
  1. Long press to turn on aircraft.

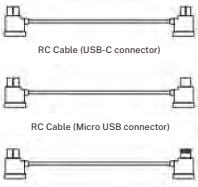
  2. Press once and then long press to turn on the remote controller.

  3. After both turning on, the linking will be automatically started, which is about 50s. When the remote controller icon changes from flashes to steady on and emits a sound of "beep" and the aircraft's lights turn from red to white&blue, indicating that the linking is successful.

⚠
- The aircraft will automatically linking with the remote controller for about 50 seconds.
- Before each flight, check the power of the remote controller. The indicator light on remote controller will flash and the remote controller will "beep" when the battery is low.
- After the memory card is installed, the photo and video files will be stored both in the memory card and the phone.
- When using the mobile device holder to hold a mobile phone, be sure to press it firmly to prevent the mobile phone from slipping off.
- Keep the battery level at around 50-60%, and recharge it every month or so to keep the battery active.

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6.4 Remote Controller Cable Connection





1.Select the Appropriate RC cable.

2.Connect one end of the RC cable to the remote controller and the other end to the mobile phone.

3.Enter the App, and allow the permission to pop up.
When you enter the CONTROL interface and see the image transmission screen of aircraft, the connection is successful.

⚠ • When the data cable is connected to the phone, ensure that the plug of the data cable is installed in place. For some mobile phones, the plug of the data cable is not installed in place due to phone case, resulting in the failure of data transmission with poor contact and the inability to see the image transmission.

• Please correctly set the USB Settings option that pops up. Select "Transferring files" for Android phones, and "Trust" for iphones.

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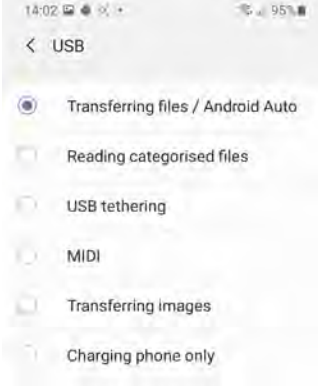




- Some USB Settings of Android phones are hidden in the “Developer options”, you need to change the "Default USB configuration" to " Transferring files" after opening the developer mode.

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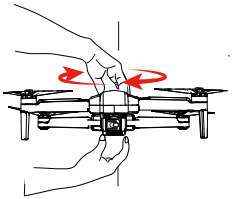


- The remote controller cannot charge the mobile device. Please check the battery power of the mobile device before use.

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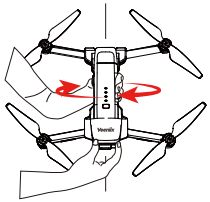
6.5 Compass Calibration before Flight

• Automatically enter compass calibration after entering App .



(Figure 1 Horizontal Rotation)

1.At this time, you need to follow the prompts to pick up the aircraft at a distance of 1m from the ground and rotate the aircraft horizontally for 1 lap until the App interface prompts to enter the vertical calibration. (No fixed direction of rotation required.) Please keep the aircraft flat when rotating horizontally, otherwise it will take more turns to complete the calibration.



(Figure 2 Vertical Rotation)

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2.Pick up the aircraft at a distance of 1m from the ground, and rotate the aircraft 1 lap vertically with the camera facing upwards until the prompt of vertical calibration on the App interface disappears. (No fixed direction of rotation required.) After the compass calibration is completed, place the aircraft on a level ground. At this point, the aircraft lights turn white and blue.

⚠
- The compass calibration is required by default every time the aircraft is turned on. The aircraft light turns pink after pairing, and it can be calibrated in steps 1 and 2.

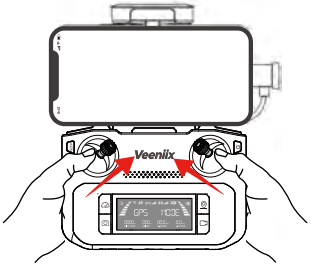
- Before the flight, pay attention to the compass interference value on the App. When the interference value is close to 120, it will prompt the compass calibration. At this time, we can manually calibrate the compass or change the place of flight. When the interference value exceeds 180, the aircraft will force entry into compass calibration.

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Manually trigger compass calibration

- When the aircraft is flying in a circle or out of control in a complex environment, the aircraft compass calibration is not standard or interfered. Please land the aircraft manually in time to manually calibrate the aircraft (refer to the first step of compass calibration).

- When calibrating the aircraft, please open the arm to avoid the influence of the magnetic field of the motor.

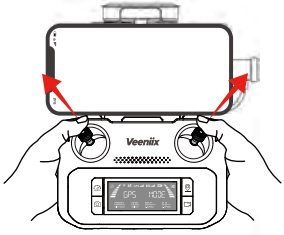


(Figure 3)

- Turn the remote controller joystick to 1 o'clock and 11 o'clock and hold for 2 seconds (as shown in Figure 3). When the indicator light of the aircraft turns pink, the calibration step will be entered.

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6.6 Gyroscope Calibration





A level ground

1 .Make sure the aircraft is placed on level ground.

2.Push the left joystick to 11 o'clock and the right joystick to 1 o'clock.

3.The aircraft starts to calibrate the gyroscope automatically when the lights flashes fast.

4.The gyroscope calibration is completed when the lights changes back to the original state.

5.After the calibration is completed, "Ready to fly" is displayed in the App, and the user can now prepare to take off.

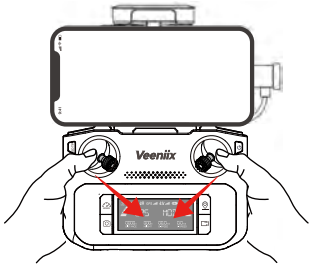
⚠
- When the aircraft's flight state is tilted and unstable, please land the aircraft on a level ground for gyroscope/horizontal calibration.
- Horizontal correction cannot be performed when the fuselage is tilted more than 10 degrees.

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6.7 Starting/Stopping the Motors

Starting the Motors

- Method 1:
  Push the joysticks into 5 & 7 o'clock position to start the motors. Please release the joysticks immediately after the motors starts rotating.



- Method 2:
  Click the App interface Auto Takeoff/Landing icon swipe to unlock the motors.

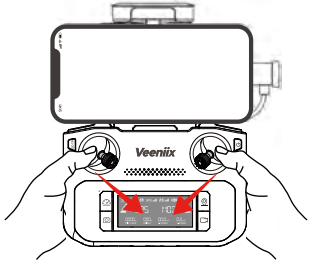


Method 2

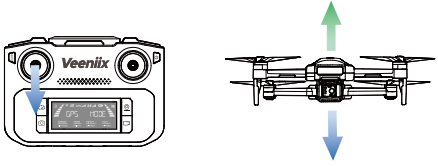
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Stopping the Motors

- Method 1: When the aircraft is not taking off, push the joysticks into 5 & 7 o'clock position to stop the motors. After the motors is turned off, please release the joystick immediately.



- Method 2: After the aircraft takes off, push the left joystick to the lowest position and control the aircraft to land until the motors stop, then release the joystick.



⚠ • Please land the aircraft on a flat ground to avoid damage caused by uneven landing.

• Manual pull-down control of the left joystick will take a long time to land. It can be released only after the propellers stop rotating completely.

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6.8 Auto Takeoff/Landing

Auto Takeoff

- After the aircraft is calibrated, the user can use the Auto Takeoff function:
  1 .Start the motor after confirming the safe take off conditions.

  2.Click the Auto Takeoff/Landing icon  on the App interface. Swiping to unlock the motor and click “Take off” to confirm take off.

  3.The aircraft will Take off automatically and hover at a distance of 4ft (1.5m) from the ground.

Auto Landing

- After the aircraft takes off, the user can choose to use the Auto Landing function:

  1.Confirm the safe landing conditions, click the Auto Takeoff/Landing icon  on the App interface, and swipe to enter the auto landing.

  2.The aircraft will descend to the ground and turn off the motors itself.

⚠
- When the aircraft is descending, push the left joystick of the remote controller up to exit the Auto Landing.
- This function is an in-situ automatic descent function, suitable for use in close visual range. Please do not use it from a long distance to cause loss of the drone.

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6.9 Basic Flight

Basic Flight Steps

1 .Place the aircraft on a flat and open ground with the nose facing forward and the tail facing the user.

2.Long press the power button until all indicators are on to power on the aircraft.

3.Press once and then long press to turn on the remote controller. The aircraft and the remote controller will automatically linking for about 50 seconds.

4.After the linking is completed, rotate the aircraft horizontally and vertically to complete the compass calibration.

5.Perform gyroscope calibration by pushing the joysticks after aircraft compass calibration is completed.

6.After the gyroscope calibration is completed, connect the RC cable of the remote controller to the mobile phone.

7.Open the Veeniix Fly App and enter the CONTROL interface.

8.After the GPS signal search is completed, the lights of the aircraft will steady on.

9.Unlock the motors.

10.Slowly push the left joystick upward to let the aircraft take off smoothly.

11.Pull down the left joystick to lower the aircraft.

12.After landing, pull the left joystick to the lowest position and hold it until the motors stop.

13.Turn off the power of aircraft and remote controller in turn after shutdown.

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Basic Flight Steps

1.Routine inspection before every flight.

2.It is recommended to take photos or videos in low-speed.

3.Choose sunny and less windy weather for shooting.

4.Push the joystick as little as possible during the flight to make the aircraft fly smoothly.



Awareness of flight safety is very important for the safety of you, the surrounding people and the environment. Please read the *"Flight Guide & Safety Disclaimer"* carefully.

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7 Appendix

7.1 Specifications

Aircraft Parameter

Model: Veeniix V11
Weight: 590g (20.82oz)
Size: Unfold 41x29x8cm; Folded 20x9.5x8cm
Battery Capacity: 3500mAh
Standard Voltage: 11.1V
Charging time(5V/3A charger): About 4.5 hours
Charging time(QC 3.0 fast charger): About 3 hours
Max Flight Altitude: 393ft (120m)
Max Flight Distance: 9800ft (3000m)
Motor Model: 1806 brushless motor
Operating Temperature: 32℉-104℉ (0℃-40℃)
Satellite System: GPS/GLONAS

Remote Controller

Working Frequency: 2.4GHz+ 5G bridge
Max Control Distance: 9800ft (3000m) Outdoor open and undisturbed area
Battery Capacity: 1500mAh
Standard Voltage: 3.7V
Charging Time: About 2 hours
Mobile Device Holder: 4.7-6.7 inches (Mobile phone screen size)
Charging Temperature: 32℉-104℉ (0℃-40℃)

Camera

FOV: 100° (Horizontal)
Equivalent Focal Length: 60CM
Focus: Fixed-focus
Feature: Electric Image Stabilization (EIS)
Photo Format: JPG
Video Format: MP4

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CONFIGURATION	STORAGE		RESOLUTION	TRANSMISSION FRAME RATE
V11	Phone	Photo	3840X2160P	
		Video	1280X720P	30fps
	SD card	Photo	3840X2160P	
		Video	3840X2160P	30fps

5G Image Transmission

Working Frequency: 5.15-5.35GHz; 5.725-5.825GHz
Standard: 802.11a; 802.11n20; 802.11n40
Video Transmission Frame Rate: 30FPS
Image Transmission Distance: 9800ft (3000m)
Image Transmission Frequency: 5G

7.2 Accessories Support


Battery


Propeller


Arm


Remote Controller

- All of the above accessories can be searched and purchased on Amazon, and you can enter the Veeniix store to buy them yourself.

- Be sure to use original accessories. The use of non-original accessories may cause danger to the safe use of the aircraft.

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7.3 Common Questions and Solutions

V11 Common Questions and Solutions		
Questions	Reasons	Solutions
The motors cannot be started	Without GPS signal or weak GPS signal	Turn on the aircraft in an open area with strong GPS signal, 3 bars or more to unlock takeoff.
	Red lights flashes	Low battery power. Please charge the battery in time.
	Pink lights flashes	The compass is not calibrated. Please refer to the "Compass Calibration before Flight" section of the user manual.
	The positions of left and right joysticks are not correct	Push the left and right joysticks simultaneously to 5 o'clock and 7 o'clock for 2 seconds. Or click the Auto Takeoff icon on the App.
Unstable flight	Flying too low, affected by aircraft airflow	Please fly the aircraft above 9.84ft (3m).
	The gyroscope is not calibrated	Place the aircraft on a horizontal surface and conduct gyroscope calibration. Please refer to the "Gyroscope Calibration" section of the user manual.
	Propellers deformed or incomplete	Replace the propellers with new ones.
	GPS signal is unstable. Flying near buildings and in obstructed places	Please fly the aircraft in an open area free of obstacles within the circle of radius 32.81ft (10m)
Can't fly far or only fly within a distance of 98ft (30m)	The beginner mode isn't turned off	Enter the App setting interface, turn off the beginner mode to set the flight distance and altitude, and save the settings.
The direction of the aircraft is opposite or inconsistent with the joysticks during flight	The aircraft was facing incorrectly before takeoff	Place the aircraft on a flat and open ground with the nose facing forward and the tail facing the user.
Sudden fall	Use the Emergency Stop	Only use this feature when in emergency so as to reduce the risk of damage or injury.
Out of control, spinning around on its own, abnormal sound	The remote controller signal is interfered or the aircraft exceeds the range of remote controller	Please fly the aircraft outdoors without interference, and ensure that it is within a controllable range
	Compass interference	Please manually land the aircraft in time and calibrate the compass. Please make sure to fly away from the buildings, trees, power lines, and signal towers
	The propellers become deformed and incompleted	Replace the propellers with new ones

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Question	Reason	Solutions
Gimbal is not working	The aircraft was placed on an uneven surface such as grass, sand and so on	Place the aircraft on landing pad or cardboard horizontally, and ensure a gap between the camera and the surface.
	The aircraft was placed on the surface which transfer small vibration, such as hollow wooden floor, desk and so on	Place the aircraft on a solid level ground.
	Keep touching the camera and gimbal or picking up the aircraft before all is set	Never touch the camera when the power is on, place the aircraft on a level ground until the gimbal complete self-inspection.
	The compass is in calibrating	The gimbal does not work during the calibration period. After manual calibration, place the aircraft on a level ground and it will automatically calibrate.
Video freezes, image transmission distance is short	The aircraft is out of Wi-Fi range	Fly the aircraft within the range of the Wi-Fi
	Wi-Fi image transmission signal interference	Fly the aircraft in an unobstructed open area free of buildings, high-voltage wires and signal towers
	The remote controller and the mobile phone are not pointed at the direction of the drone	Point the remote controller and the mobile device at the flying direction of the aircraft to maintain the strongest signal connection
	Phone performance freezes	Close unusing softwares running in the background to maintain the best performance of the phone
	The antennas on the aircraft arms are folded	Please unfolded the antennas of the aircraft.
App does not display the interface	The phone is not connected to Wi-Fi	Connect the RC cable of the remote controller to the mobile phone.
	The phone version is too low	Android 6.0 and above, IOS 10.02 and above
	Mobile phone systems clash between old and new	Turn the phone to airplane mode and try again.
	Aircraft did not link with the remote controller	It takes about 50 seconds for the aircraft to link with the remote controller. Only after the linking is successful can the App display the image.
App crashes or functions abnormally	Wrong App downloaded	Download the correct App
	The phone version is old and not compatible with the App	Provide your mobile phone version model and we will give you a corresponding solution.
GPS signal is weak	Turning on the aircraft indoors	GPS signals cannot be found indoors. Please search for GPS signals in an open place outdoors
	Under the tree, next to the building, in an obstructed place	Please stay away from obstacles for more than 32.81 feet(10 meters), and search for GPS signals in an open area

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Question	Reason	Solutions
Unable to return home, drifting and flying away	GPS signal was turned off during the flight	Please don't turn off GPS suddenly during outdoor flight. Switch back to GPS mode in time.
	Flying under the tree, next to the building, in an obstructed place	Please fly away from buildings or obstacles.
The aircraft cannot be paired with the remote controller	It takes about 50 seconds for the aircraft to link with the remote controller.	Please wait patiently for the linking.
Cannot charge battery/Cannot fully charge battery	Using inferior charger or charging on the computer with unstable voltage output	Use a mobile USB charger that ensures constant stable voltage output(5V) and amperage output(2-3A)
	Using inferior charging cables	Please use the original factory charging cable to charge
Short battery life	Flying in windy weather	Flying in windy weather will accelerate power loss
	Flying in cold weather	In low temperatures, the chemical reaction of the lithium battery is slowed down and the energy cannot be fully released
	The battery is not fully charged	Please use a correct charger to fully charge it.
	It' s idling for 2-3 days, the battery Auto-Discharging Function make the battery to automatically discharges to approximate 85%	Please check the battery power and fully charge before each flight.
The product has slight marks	We tested all aircraft before shipping	In order to give you the best experience, we tested functions of all aircraft before shipping. Therefore, it is inevitable that there will be slight traces. However, it can be guaranteed that all aircraft are 100% brand new.

7.4 After-sales Support

Contact veeniixtoy@gmail.com to learn more about after-sales service policies, repair services, and support.

If you have any questions or suggestions about the User Manual, please contact us at the following email address: veeniixtoy@gmail.com

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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.

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

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Veeniix®

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CONTACT US FOR MORE TECH SUPPORT

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