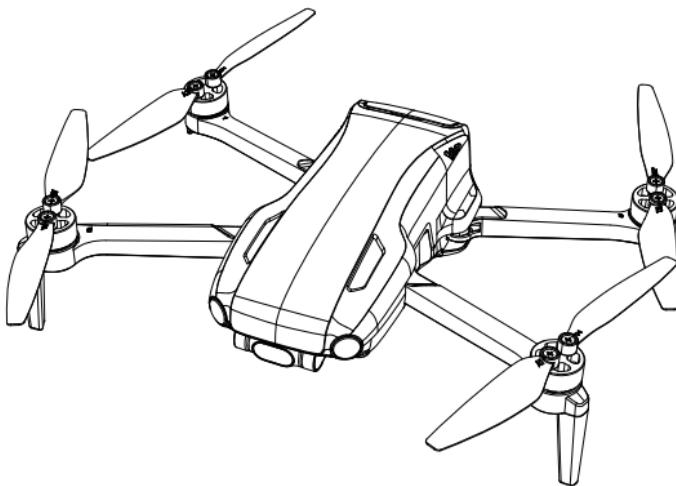


Veeniix®

14+
for age

User Manual

v1.0



V11MINI 4K

CONTACT US FOR MORE TECH SUPPORT



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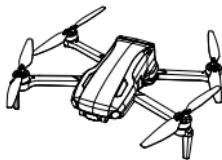


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1. Product List



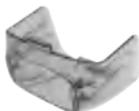
Drone



Remote Controller



Intelligent Flight Battery



Camera Cover



Spare Propeller



USB Charging Cable



Screwdriver



Screw



Rocker



Micro USB cable



USB-C cable (pre-installed in remote)



Lightning cable



User Manual



Quick Start Guide

2. Requirements of Flight Environment

- Flight Safety.



Sunny



Windless



Strong GPS Signal



Maintain Line of Sight



Fly Below 390ft



- It is recommended to fly in an open space with a radius of at least 33 feet and no obstacles. High-voltage power lines and communication towers can interfere with control signals; Avoid flying near these areas.
- Do not fly over or near crowds. Avoid flying in extreme weather conditions such as high or low temperatures, or during thunderstorms and heavy rain.



Approach Obstacles



Approach the signal tower



Soar over the crowd



High temperature



Low temperature



Lightning



Snow



Rain



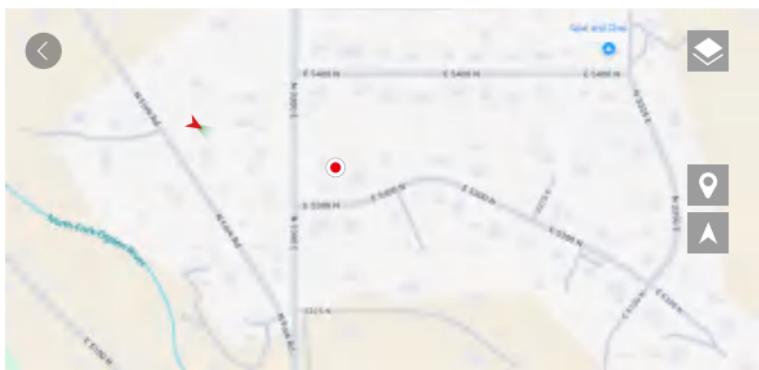
Fog



Windy



3. Find Drone



- You can click "Track" and then "Find drone" in the App settings to view the location of the last time your phone connected to the drone.
- Note: The phone needs to be connected to the Internet to cache map data.

 My Location	 Drone Location
 Tap to select "My Location"	 Tap to select "Drone Location"
 Tap to switch three layers of map	

4.Precautions and Maintenance for the Intelligent Battery

- Please fully charge the battery for the first time before using it.
- It is recommended to charge and discharge it once a month, do not store it fully charged, keep 50%-60% of the electricity, the storage temperature is 10-40°C, and the best storage temperature is 19-21°C.
- Water enters the battery and the battery protection board fails, which will cause the battery not to 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 prohibited as excessive heat may cause dangerous battery pressure buildup, potentially leading to explosion.
- If the aircraft has not been used for a month, remove the battery to prevent over-discharge.



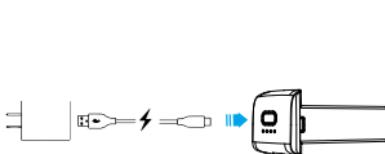
• Use 5V/3A charging plugs. Fast charging plugs exceeding 5V/3A are prohibited.



USB Adapter
(5V/3.0A)

(Not included)

⚠ • It is prohibited to use computer USB, simple USB, and non-original charging cables for charging.



✓ Original charging cable



✗ Computer USB

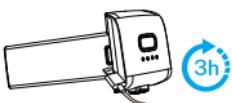


✗ Non-original charging cables

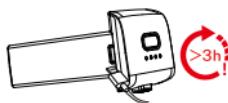


⚠ • Please remove the battery in time after the aircraft has landed on low power to avoid battery damage caused by battery over-discharge.

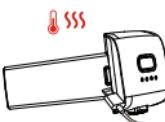
• It is forbidden to overcharge the battery, please remove charging cable in time after fully charged to avoid damage due to overcharge.



✓ Charging Time≈3 hours



✗ Overcharge>3 hours



✗ Overheating warning

5. Flight Operation Guidelines

5.1 Pre-Flight Checklist

- Ensure that the remote controller, smart flight battery, and mobile device have sufficient power.
- Make sure the aircraft's arms are fully extended.
- Ensure the battery compartment cover is securely fastened and the smart flight battery is properly installed.
- Check that the propellers are not damaged, worn, or deformed, and that there are no foreign objects tangled in them. Ensure they are securely installed.
- Make sure GPS is enabled to avoid losing signal, and fly outdoors in an open area.
- Ensure your phone is properly connected to the controller. Pull out the phone holder, then insert the cable into the Type-C port at the top of the controller for data connection. Do not use the charging port on the side for data connecting, as this will prevent image transmission.
- After powering on, verify that all four motors start normally and that their speeds are consistent.
- Ensure the camera is clean.
- If replacing parts, always use original manufacturer components. Using non-original parts can pose a risk to the safe operation of the aircraft. For details on supported accessories, refer to the accessories support page in the appendix of the user manual.

5.2 Operation Safety Guidelines

- Please unfold the arms of the aircraft and turn on the power before flying.
- Please pay attention to the direction of the aircraft when flying. The camera direction is the forward of the aircraft.
- Do not answer calls, or text messages, or do anything that may distract you from operating your mobile phone to control the aircraft during the flight.
- Make sure that you are not under the influence of alcohol, drugs, or anesthesia, nor are you experiencing dizziness, fatigue, nausea, or any other conditions, which may impair your ability to operate the aircraft safely.
- Always set the proper Return-to-Home (RTH) altitude and ensure your phone is properly connected to the remote controller with all required permissions enabled before each flight.
- Make sure to fly outdoors in an environment with strong GPS signals.
- As long as the aircraft has a sufficient GPS signal, it cannot switch to Attitude Mode. If the aircraft has not completed the GPS signal search, you can switch to Attitude Mode by pressing and holding the compass button on the remote controller.
- After turning off the GPS, the one-button return to home, low power return, GPS follow, surround mode, route planning, and aircraft finding functions are unavailable. Flight may become unstable, requiring users to have certain operational skills and proficiency.
- Perform compass and gyroscope calibration before each flight; Otherwise, the aircraft may not function properly.
- Always maintain control of the aircraft during flight. Do not rely solely on the Veeniix PRO App.
- GPS flight assistance features and App are only used to assist the pilot and cannot replace the pilot in controlling the aircraft. Please pay attention to the flight and operate the aircraft carefully to avoid hitting obstacles when returning.

6.FCC Safety and Disclaimer

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- Note:

This device has been confirmed 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 device may generate and radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications (which can be determined by turning the device on and off). It is recommended to eliminate the interference using the following methods:

- 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.

- This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.
- The device has been evaluated to meet general RF exposure requirement in portable exposure condition without restriction.

7.Disclaimer and Warning

- This product is NOT a toy and is NOT suitable for individuals under the age of 14. Keep the drone out of reach of children and exercise caution when operating it around them.
- This product is a flying camera designed for easy flight when properly maintained. Read all accompanying materials before using the drone for the first time. These documents are included in the product package. It is recommended to operate the drone in GPS mode in an open outdoor area to familiarize yourself with its controls.
- Improper use of this product could result in personal injury or property damage.
- The information in this document affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings in this document may result in product loss, serious injury to you, or damage to your aircraft.
- By using this product, you hereby signify that you have read this disclaimer carefully and that you understand and agree to abide by the terms and conditions herein. Please be sure to strictly abide by the specification requirements and safety guidelines stated in this document.
- You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies, and guidelines Veeniix may make available.
- Any personal injury property damage, legal disputes, and all other adverse events caused by the violation of the safety instructions or due to any other factors, WILL NOT be Veeniix's responsibility.
- Veeniix reserves the right to update this disclaimer and safety guidelines.

1 Using This Manual

1.1 Legend

Recommend Warning Hints & Tips Reference

1.2 Recommendations

- Veeniix V11MINI 4K provides users with instructional videos and the following documents:
 1. *User Manual*
 2. *Quick Start Guide*
- It is recommended that users first watch the instructional video and then read the *Quick Start Guide* to understand the use process. Please read the *User Manual* for more details.

1.3 Download Veeniix PRO App

- Make sure to use Veeniix PRO App during flight. Scan the QR code or Search in the application store to download "Veeniix PRO".
- Veeniix PRO App is compatible with Android 6.0 or above, iOS 10.0.2 or above.



(For Android)



(For iOS)

1.4 Video Tutorials



- Please visit our product link or scan the above YouTube QR code to watch the tutorial video of this drone or contact our after-sales service for more technical support and learn how to use the aircraft safely.

2 Product Profile

2.1 Introduction

- V11MINI 4K could hover and fly stably indoors and outdoors, with RTH function. The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with an 85° FOV lens and a 90° adjustable camera, which can stably shoot 4K HD video and 8K ultra-clear images, providing you with a broad field of vision for unforgettable moments.

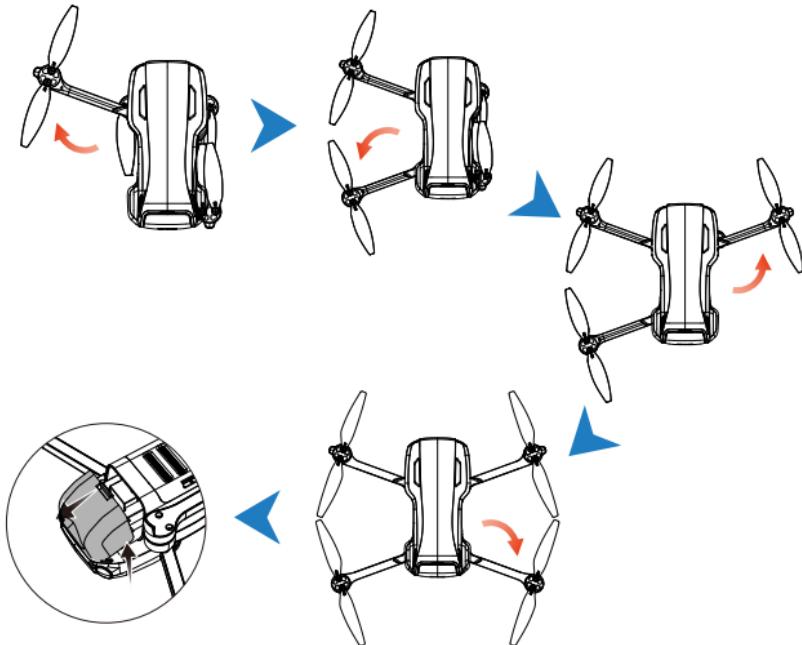
2.2 Feature Highlights

- The V11MINI 4K drone features a foldable design, an ultra-lightweight body, and weighs less than 249 grams, **so FAA certification is not required**. It is portable, easy to operate, and allows for one-click photo and video capture.
- V11MINI 4K's leading flight control system provides agile, stable and safe flight performance. The RTH function enables the aircraft to automatically return to the return point and land even when the remote control signal is lost or the power is insufficient.

2.3 Preparing the Aircraft

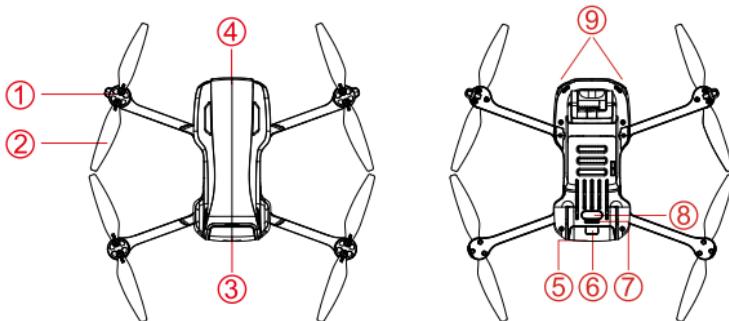
- All propellers are folded before the aircraft is package. Follow the steps below to prepare the aircraft.

1. Unfold the front arms;
2. Unfold the rear arms, and then all the propellers;
3. Remove the camera cover from the aircraft's camera.

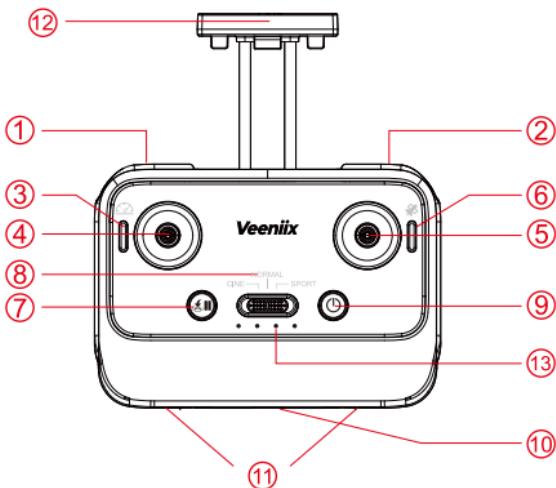


1. Unfold the front arms before unfolding the rear arms.
2. Before powering on the aircraft, ensure that the front and rear arms are extended and the aircraft is placed on the horizontal ground.

2.4 Aircraft Diagram



① Motor	⑥ Power Button
② Propellers	⑦ Drone Status Indicator Light
③ Battery	⑧ Optical Flow Lens/TOF
④ Camera	⑨ LED Light
⑤ Power Indicator Light	



1.Gimbal Dial**2.Take Photo/Video**

Short press once to take a picture.

Long press once to start recording mode, repeat to stop recording.

3.Cruise Control Function

Operate the remote control joystick and briefly press this button, then release the joystick, the drone will automatically fly at a constant speed according to the control direction.

4.Left Control Joystick

(American control joystick)The left control joystick can adjust the aircraft's altitude and nose direction (Up/Down, Left Rotation/Right Rotation).

5.Right Control Joystick

(American control joystick)The right control joystick can adjust the aircraft's flight direction (forward/backward/left/right).

6.One-touch Adjustment of the Gimbal/Flight Mode Switch

① Short press the button to adjust the camera with one press.

② Long press the button to switch flight mode.

7.One Key Return

① Short press: the drone automatically returns to the take-off position (due to GPS signal problems, the landing position may slightly deviate from the take-off position, the deviation range is about 9.84ft in diameter); short press once during the return to cancel the intelligent return.

② Long press: turn on the drone buzzer (can only be turned on when the motor is not started).

8.Speed Adjustment (3 speed in total)

Left: low-speed

Middle: medium speed

Right: high speed

9.Power Switch

Long press to turn on the power, repeat to turn off.

10.Charging Hole**11.Joystick Storage Hole****12.Cell Phone Holder****13.Indicator Light**

3 Aircraft

- The Veeniix V11MINI 4K drone primarily consists of a flight remote controller, a gimbal stabilization system, a communication system, a video downlink system, a propulsion system, and an intelligent flight battery. This section details the functions of each component.

3.1 Flight Speed Mode

- Veeniix V11MINI 4K has three types of speed: low speed, medium speed and high speed, which can be adjusted by pressing the speed button to meet your different flight speed experience.



1. When wind speed is high, sport mode should be maintained to improve wind resistance effect. High speed mode is sport mode.
2. When flying in sport mode, the pilot should reserve at least 3 meters of braking distance to ensure flight safety.
3. When flying in sport mode, the power of the aircraft will be greatly improved, please reserve enough flying space to ensure the safety of the flight.

3.2 Calibration and Aircraft Status Indicator

- The V11MINI 4K aircraft's status indicator is located under the rear arm of aircraft to indicate the current status of the flight control system. Please refer to the following table for the status of the flight control system represented by different blinking modes.

	Blinking status of the indicator	Conditions
Aircraft		The red light blinks twice at short intervals
		Slow flash
		Slow flash
		Stay on
		Green light out
		Stay on
		Quick flashing
Remote Controller		Flash
		Stay on
		Extinguish
		Remote controller battery indicator
		Flash quickly together
		Three green lights flashing slowly together
		Three green lights flash in turn
		Blue light and three green lights flash in turn

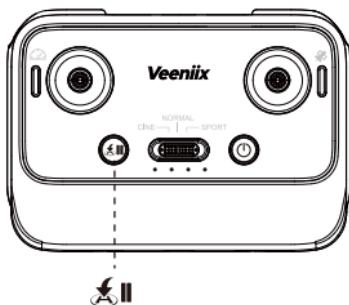
3.3 Return to Home

- The V11MINI 4K aircraft has an automatic return-to-home function in GPS mode, making the aircraft return to the take-off point. The Return to Home (RTH) function brings the aircraft back to the last recorded home point. There are three types of RTH: Smart RTH, Low Battery RTH, and Signal Disconnection RTH. If you activate the RTH function under the condition that the aircraft successfully recorded the home point and GPS signal is good, the aircraft will automatically return to the home point and land.

	GPS	Description
		<p>When flying outdoors, the GPS signal icon is displayed with 3 bars or more for the first time, and the take-off location will record the aircraft's current position as the Home Point. 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.</p>

- Note:** When the drone is not unlocked, long-pressing the return button will activate the drone's buzzer. This function helps locate the drone and assists in recovery.

Smart RTH



Return

During the flight, press the "⚡" button, the remote control will make a "di" sound, and the aircraft will return to the take-off point automatically. During the return flight, the power indicator of the remote control will flash cyclically.

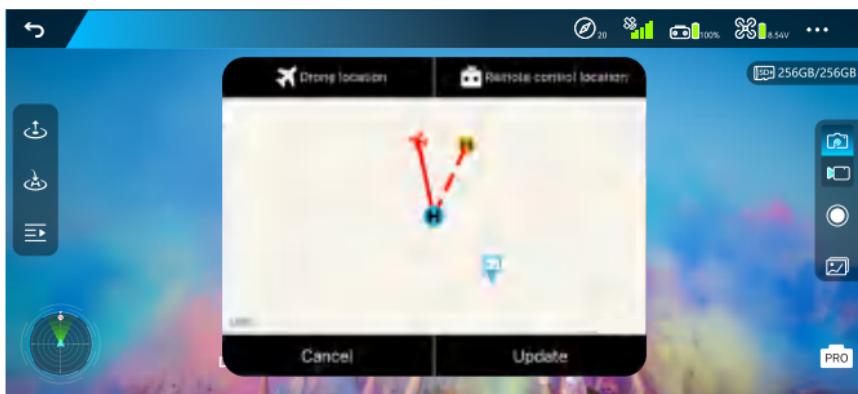
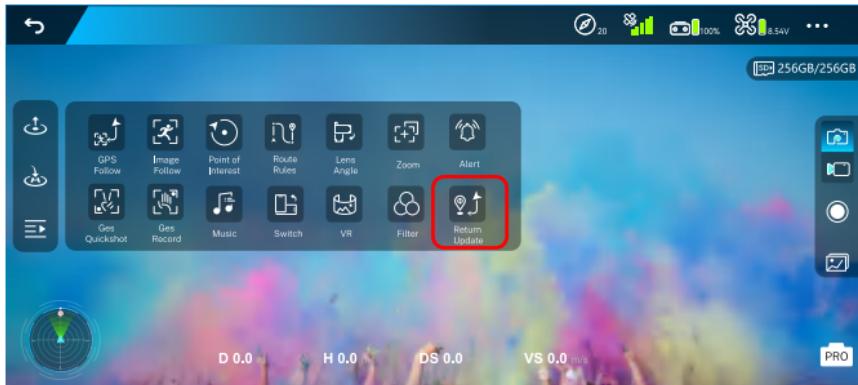
Stop return

To stop the return flight, just press this button again.

1. When the pilot needs the aircraft to return home automatically, you can click the smart RTH button(⚡) on remote controller or tap the return icon(⚡) on the App interface to start RTH.
2. During the return process, the user can operate the aircraft to ascend, descend, forward, backward, fly to the left or right to avoid obstacles.
3. During the return home, short press the smart return button on the remote controller or click the return icon (⚡) on the V11MINI 4K interface again to exit the return home.

Return Point Update

- After the drone acquires a GPS signal and takes off outdoors, the return point location can be updated via the App.



Drone location	New return point location
Original return point location	Remote control location

- You can select a new return point location on the map or set the latest location of the drone or remote controller as the new return point location.

1. Select a new return point location:

- Drag freely on the App map to select a new return point.
- Tap "Update" to complete the setup.

2. Drone location:

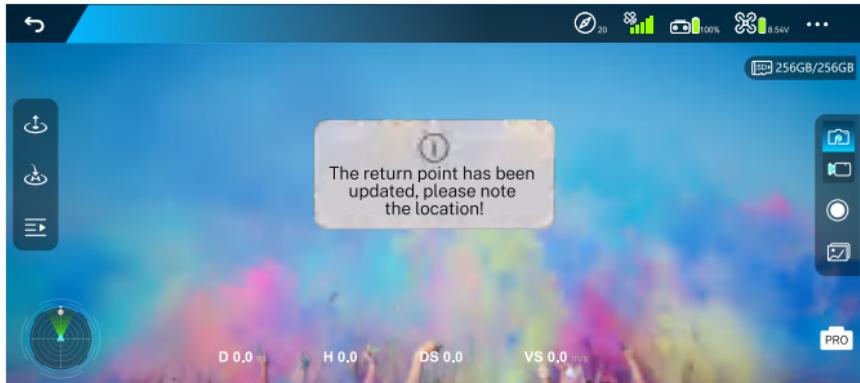
- Tap "Drone location".
- Tap  will navigate to the current location of the drone.
- Tap "OK" to complete the setup.

3. Remote control location:

- Tap "Remote control location."
- Tap  will navigate to the current location of the remote controller.
- Tap "OK" to complete the setup.

Complete setting

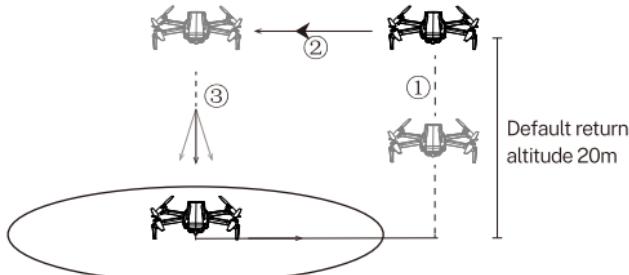
- After the new return point is set, a confirmation popup will appear, indicating that the new return point has been successfully configured.



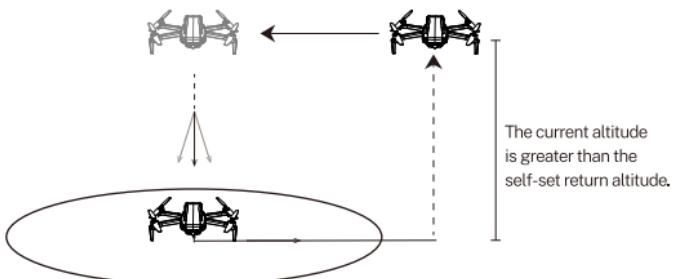
- **Warm Tip:**
It can be used after the drone takes off in GPS mode.

Note:

- If the return-to-home altitude is not set and the drone's flight altitude is below 65 feet (20 meters), the drone will automatically ascend to the default return-to-home altitude of 65 feet (20 meters) before returning. If the drone's flight altitude is above 65 feet (20 meters), it will return at its current altitude.



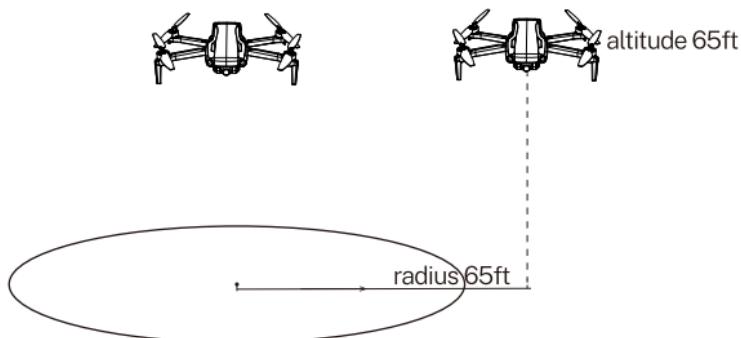
- 65ft (20m) is the default return height. The return height range that can be set in the App is 10-120 meters.
- If a return-to-home altitude is set and the drone's flight altitude is below the set return-to-home altitude, the drone will automatically ascend to the set altitude before returning. If the drone's flight altitude is above the set return-to-home altitude, it will return at its current altitude.



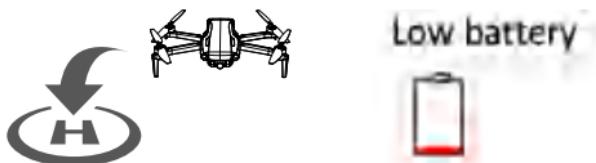
- The drone is not equipped with an obstacle avoidance function. During the flight, please judge the flight situation reasonably, avoid obstacles in time, and set the corresponding flight and return height according to the flight environment.

Low Battery RTH

- When the intelligent flight battery is too low or there is not enough power to return home, the user should land the aircraft as soon as possible to avoid aircraft damage or other dangers.
- In order to prevent unnecessary dangers due to insufficient battery power, when the aircraft battery power is low, the low battery return home function will be automatically triggered. According to the remaining power after returning, there are 2 situations after returning:
 - First-level low battery: the aircraft returns to the point 98 feet (30 meters) above the take off point and hover. After hovering, you can continue flying the aircraft at a height of 98 feet (30 meters) and within a radius of 98 feet (30 meters).

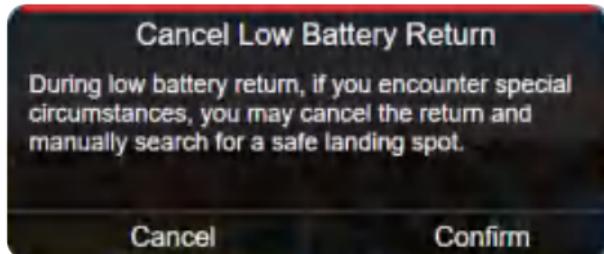


- Second-level low battery: The aircraft will directly descend from its current altitude to the ground.



3. In the event of a special situation during low battery return, you can cancel the return and take control.

- Click the return button on the remote controller or the return button on the App.
- After clicking the confirmation button on the App's pop-up, the return will be canceled.



- After cancellation, you can take control of the drone, but you can only operate the drone to fly toward the return point.



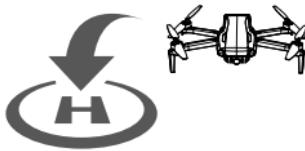
- Must pay attention to the flight altitude when the battery is low. Avoid hitting obstacles due to the low flying altitude when returning home with the second-level low battery.
- The remaining power after returning is related to the return distance, wind speed, and wind direction.

Lost Signal RTH

- When the remote controller has low battery or is turned off or loses signal for 10 seconds, the aircraft will enter the auto-return mode and return to the take-off point. If the signal is recovered during the return home process, you can press the return button to cancel the return, and the remote control can control the aircraft again at this time.

Automatically Return to Home:

- Aircraft stores its position when taking off after the GPS signal is successfully received, and records it as the home point.
- Loss of signal will trigger RTH 10 seconds later. (triggered by low battery of remote controller, signal loss, etc.).
- After triggering the Return-to-Home function, the aircraft adjusts the nose direction and starts to return home.
- The aircraft automatically flies over the home point, then starts to land, and completes the home return.

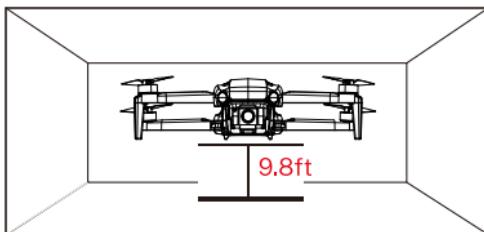


Note:

- When out of control, the aircraft cannot avoid obstacles.
- When the GPS signal is weak, the aircraft cannot return to home automatically.

3.4 Optical Flow Positioning/TOF (Indoor Attitude Mode)

- The underside of the aircraft is equipped with a downlook optical flow system and a TOF altitude sensor, which allows the aircraft to better adapt to its environment.
- The downlook optical flow system, consisting of downlook vision camera sensors, enables the drone to hover stably at low altitude in indoor attitude mode without GPS.



Note:

1. The optical flow vision system can only assist flight when the surrounding environment is well lit and rich in texture, can not completely replace the user's judgement.
2. The optical flow vision system may be ineffective or perform poorly in environments with excessively bright or dark lighting, mirrors, solid-colored smooth surfaces, water, reflective materials, or sparsely textured areas.
3. The optimal working range of the optical flow vision system is below 3 meters and above 0.5 meters, beyond the range, the positioning of the optical flow vision system may be poor, please fly carefully.
4. Please make sure that the optical flow vision system lens is clear. And it can only be used in the attitude mode.



- If the GPS signal is weak and you are flying indoors, you will need to manually turn off the GPS and switch to the indoor attitude mode before take-off.
- Once GPS is turned off, the drone will not be able to return automatically, and the smart flight feature will not be used.

3.5 Intelligent Flight Mode

- The V11MINI 4K features 6 intelligent flight modes: Route Rules, GPS Follow, Point of Interest, Gesture Quickshot/Gesture Record, Image Follow, and Cruise Control Function. Depending on the user's shooting needs, the operation can be completed with a single click, making it simple and fast.



Route Rules: In this mode, aircraft flies along paths marked with way points.



GPS Follow: In this mode, the aircraft will lock on to the user and automatically follow the operator's movement trajectory to capture and shoot.



Point of Interest: In this mode, the aircraft is centered on the location set on the App, flying around at a specific distance to shoot.



Ges Quickshot/Ges Record: The aircraft takes pictures or videos according to the steering instructions of different gestures.



Image Follow: Image Follow function enables the drone to follow the object's in circle movement to rotate.



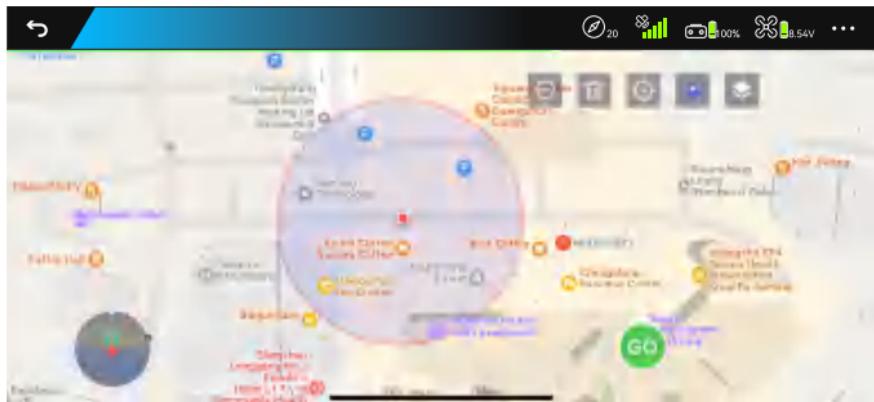
Cruise Control: When GPS signal is strong, the aircraft maintains a constant speed based on its current flight mode.

Route Rules

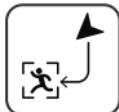


1. Ensure that you have downloaded the Veeniix PRO App on your phone;
2. Connect the phone with the remote control via the data cable and open the App;
3. After the aircraft takes off, in GPS mode, tap the icon ();
4. Mark interested of points (up to 16) which you plan to fly on App map's within red circle (limited flight range);
5. Tap "Delete Single Point" or "Delete All" to reset the marked point.
6. Make sure the marks are correct, click "Send", The aircraft will start waypoint flight.

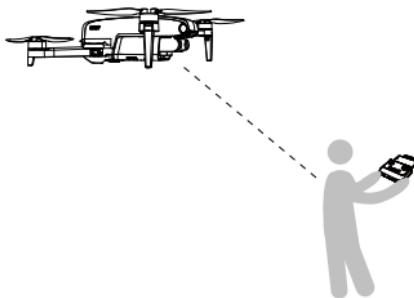
Note: Push right joystick to cancel waypoint flight function.



GPS Follow



1. Ensure that you have downloaded the Veeniix PRO App on your phone;
2. Turn on the smartphone's GPS location; connect the phone with the remote control via the data cable and open the App;
3. After the aircraft takes off, the best effect is to ensure that the flight range is within 50 meters in an open environment with good GPS signal;
4. Tap the (➔) icon on the App interface to start the (➔) mode;
5. "GPS Follow"(➔) will be displayed on the App interface and try to fly. The aircraft will track your movements to fly;
6. Tap the icon on the App interface again to exit the GPS Follow mode;



- The GPS Follow function only works when the GPS signal is strong. Please avoid high buildings, trees, and areas where signal might be interfered.
- Aircraft is not equipped with obstacle avoidance function. Please use it in open areas free of obstacles.

Point of Interest

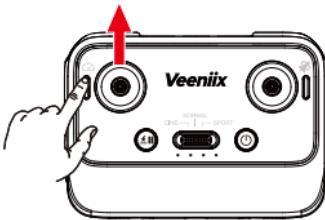


1. Ensure that you have downloaded the Veeniix PRO App on your phone;
2. Turn on the smartphone's GPS location; connect the phone with the remote control via the data cable and open the App;
3. Launch the aircraft and make it hover around the target center point. Fly to the target point where you want the aircraft to fly around;
4. Tap the () icon on the App to activate Fly Around mode;
5. Move the right rocker forward and backward to set the radius of the drone to fly (within 5-50 meters);
6. The aircraft begins to orbit according to the radius set in step 5;
7. Tap the icon on the App interface again to exit the Point of Interest;



- The default minimum surround mode radius is 16 feet (5m).
- If the altitude is below 5 meters, the drone will automatically ascend to 5 meters before initiating orbital flight.
- Move the right direction bar left and right to adjust the circling speed and direction.

Cruise Control



- This function requires sufficient satellite signals to be acquired in GPS mode before use.
- 1. Set the automatic flight distance and altitude.
- 2. Fly the drone to an altitude of at least 15 meters (minimum operating altitude).
- 3. Move the left or right joystick, then quickly press the cruise control button again.
- 4. Release the joystick; the drone will maintain the commanded flight path (e.g., pushing the right joystick forward results in automatic forward flight).
- 5. During cruise mode, you may adjust the drone's heading and altitude using the remote controller. To update the cruise parameters, press the cruise control button while making adjustments, then release the joystick to resume automated flight.
- 6. To exit cruise control without joystick input, briefly press the cruise control button or select "x" in the App.



- The drone cannot use this function if the flight altitude is below 15 meters.
- The function cannot be used when the drone's battery is low.
- The drone will automatically exit this function after reaching the set distance.
- If the drone descends to 15 meters during automatic cruising, it will automatically exit this function.
- The drone does not have obstacle avoidance features. Please ensure flight safety.

Ges Quickshot/Ges Record



1. Ensure that you have downloaded the Veeniix PRO App on your phone. Turn on the smartphone's GPS location. Connect the phone with the remote control via the data cable and open the App.
2. After the drone takes off, use it in GPS mode.
3. Open the App, tap the Multi-function icon on the App interface, and tap the () icon. In this mode, raise the right hand and pose() at the same height of the shoulder to take photos.
4. Tap the () icon. In this mode, raise your right hand and show your palm at the same height of the shoulder to open the recording mode.



- Use in a well-lit environment. Tap the icon again to exit Ges Quickshot/Ges Record mode.
- Ges Quickshot/Ges Record mode can only be activated with the right hand.

Image Follow



1. Launch aircraft and ensure flight height is higher than the nearby obstructions, access to the App CONTROL interface.

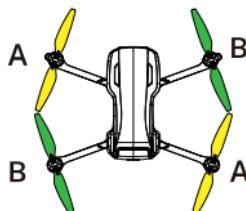
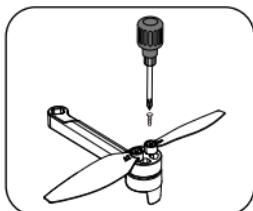
2. Click (), slide to start and tap on the object or person plans to track, tap to confirm the selection, drone rotates following the object's in circle movement.

Note: Make sure the size of the frame isn't too large, so as to ensure the recognition is achievable.

3.6 Propeller

- The adjacent propellers on the motors of the V11MINI 4K are forward and reverse propellers. The two propellers on the same motor are the same, and the propellers are marked with A and B respectively.
- The rotation directions of the propellers with the same mark are the same.

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



Installation location