

Breeze 4K

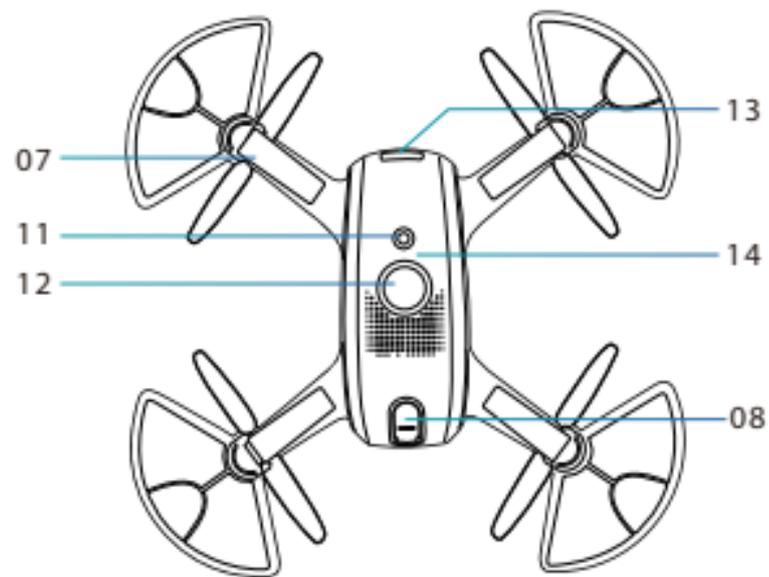
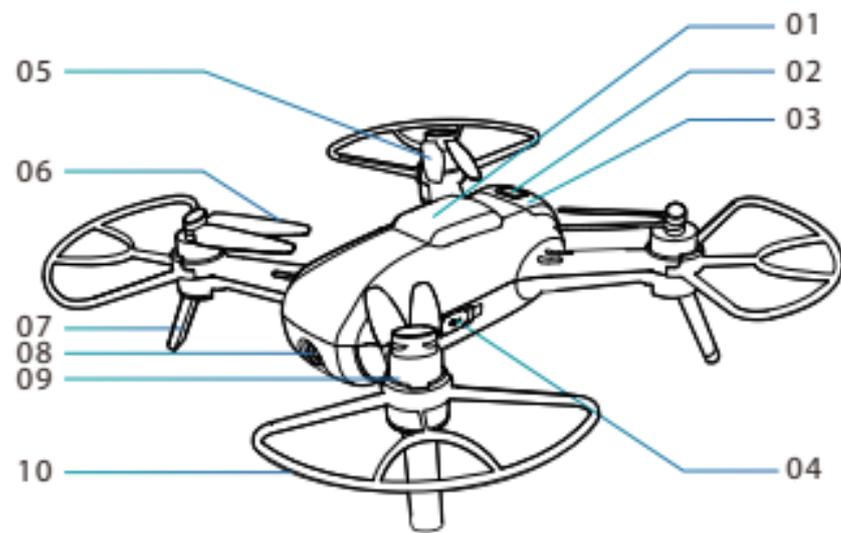
Quick Start Guide

INTRODUCTION

Breeze is a flying camera that is designed to take aerial photos and videos of you. It is small, easy to fly both indoors and outdoors, and is controlled by your smart phone or tablet computer. The application (Breeze Cam) features five custom automatic flight modes that make positioning Breeze very easy. Once you're done flying, you can download photos and videos to your device and share them to your favorite social networks directly from the app.

Breeze

- 01 GPS Module
- 02 Battery Locking Tab
- 03 11.1V 1150mAh Li-Po Battery
- 04 USB Port
- 05 Clockwise Propeller
- 06 Counter-clockwise Propeller
- 07 Landing Gear
- 08 Lens Assembly
- 09 Motor
- 10 Quick-release Propeller Protector
- 11 Optical Flow Camera
- 12 IR Sensor
- 13 Power Button
- 14 Fuselage Cover



SPECIFICATIONS

AIRCRAFT

Dimensions (without propeller protectors): 196x196x65 mm

Dimensions (with propeller protectors): 327x327x65 mm

Diagonal Wheelbase: 240mm

Takeoff Weight: 385g

Propeller Protector: Quick-Release Propeller Protector

Battery: 3-Cell 11.1V 1150mAh 12.715Wh Li-Po Battery

Motor: 2206 Brushless Outrunner Motor

Maximum Flight Altitude: 80m (Limited by Software)

Flight Time: Up to 12 mins

Max Horizontal Speed: 5m/s (Limited by Software)

Max Ascending Speed: 1m/s

Operating Temperature: 32°-104°F (0°C-40°C)

Positioning System: Indoor Positioning System +GPS

CHARGER

Model: BC24803015

Output: 12.6V DC, 1.5A

CAMERA

Controllable Range (Pitch): 0°-90°

Image Sensor: 1/3.06 CMOS

Effective Pixels: 13 Megapixels

Video Stabilization: Digital Stabilization

Video Modes:

- UHD-(4K) 2160p 30fps
Video Downlink: 848x480p 30fps
 - FHD-1080P 30fps with Digital Stabilization
Video Downlink: 720p 30fps
 - HD- 720p 60fps with Digital Stabilization
Video Downlink: 720p 30fps
- Photo Resolution: 4160x3120

Photo Format: JPEG

Scene Modes: Nature, Saturation, RAW, Night

FOV: 117°

Exposure: -2.0-2.0

White Balance: Auto, Sunny, Sunrise, Sunset, Cloudy,

Fluorescent, Incandescent

Internal Memory: 16G Flash

Other: Smart Follow Me, Video Editing

CONNECTIVITY/APP

Radio Control: 5 GHz Wi-Fi

Mobile APP: Breeze Cam (available at the Apple Store and Google play)

Required Operating System:

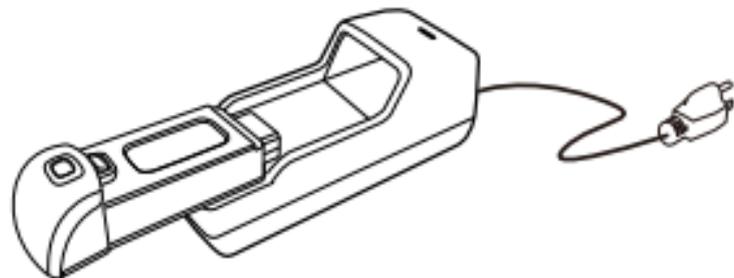
- iOS 8.0 or later
- Android 4.2.2 or later

Flight Range: 100m (depending on cellphone)

Intelligent Flight Modes: Pilot, Selfie, Orbit, Journey, Follow Me

PREPARATIONS

1. CHARGING THE BATTERY (~45min)



Charger LED Codes

■ ■ ■ ■ ■	Standby
■ ■ ■ ■ ■	Charging
■ ■ ■ ■ ■	Abnormal Charging
■ ■ ■ ■ ■	Balance Charging
■ ■ ■ ■ ■	Fully Charged

Battery Warnings:

- To charge the flight battery, you must only use the included charger.
- Do not over-discharge the LiPo battery.
- If at any time the LiPo battery begins to balloon or swell, discontinue charging or discharging immediately.
- Always terminate all processes if the battery/charger malfunctions.
- Store the LiPo battery at room temperature and in a dry area for best results.
- Allow the LiPo battery to cool to ambient/room temperature before recharging.
- Never charge the LiPo battery unattended at any time.

2. DOWNLOADING THE BREEZE CAM APPLICATION

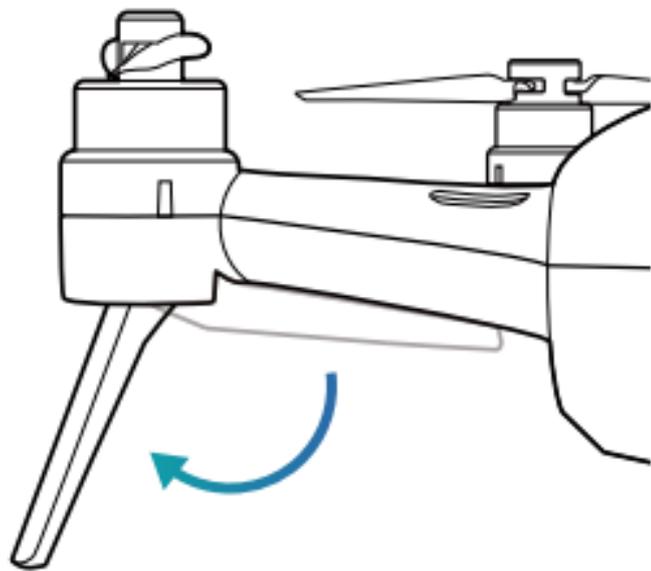
Download the Breeze Cam application for free on your smartphone or tablet computer, available on the App Store and Google Play.

NOTICE: FAMILIARIZE YOURSELF WITH EACH TASK MODE BY READING THE TUTORIALS ON THE BREEZE CAM APP BEFORE OPERATING BREEZE.



3. UNFOLDING THE LANDING GEAR

Unfold the four landing gears as shown in the below illustration.



4. INSTALLING THE PROPELLER PROTECTORS

Install the four propeller protectors to the corresponding positions as shown in the illustration below.

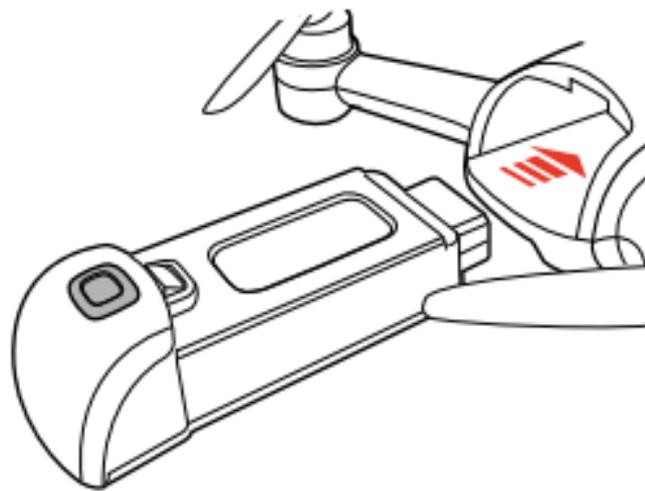


To remove the propeller protectors, unlock them from the engine arm from one side to another.



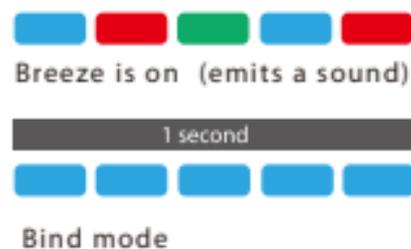
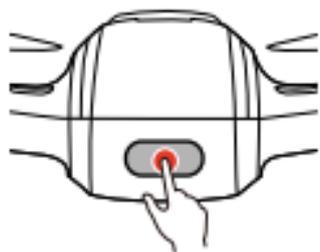
5. INSTALLING THE FLIGHT BATTERY

- Slide in the fully charged battery until it locks.
- Remove the battery by pressing the locking tab and sliding the battery to the rear of Breeze.



6. POWERING ON/OFF BREEZE

POWER ON: To start your Breeze, press and hold the power button at the rear of Breeze. When Breeze is on, the LED indicator will blink blue-red-green four times and emit a sound. When the LED indicator blinks blue rapidly, Breeze will enter "bind" mode.



POWER OFF: Press and hold the power button until the LED glows solid red. After successfully switching off, it will emit a "power off" sound after letting go of the power button.

7. BINDING BREEZE WITH YOUR SMART DEVICE

Power on your Breeze on a flat and stable surface and wait for it to complete initialization. When the LED indicator blinks blue rapidly, Breeze has entered the "Wi-Fi" bind mode.



METHOD 1: If you are using an iPhone or an iPad, select Settings > Wi-Fi ; If you are using an Android smart phone, select Settings > Wireless and networks > Wi-Fi. Select the network: BreezeXXXXXX and enter the Password: [1234567890](#).

METHOD 2: Tap [] and you can connect the Wi-Fi network directly. Select the network: Breeze XXXXXX and enter the Password: [1234567890](#).

8. FIRMWARE UPDATE

NOTICE: To download the latest firmware, make sure that your smart phone/tablet computer is connected to the Internet.

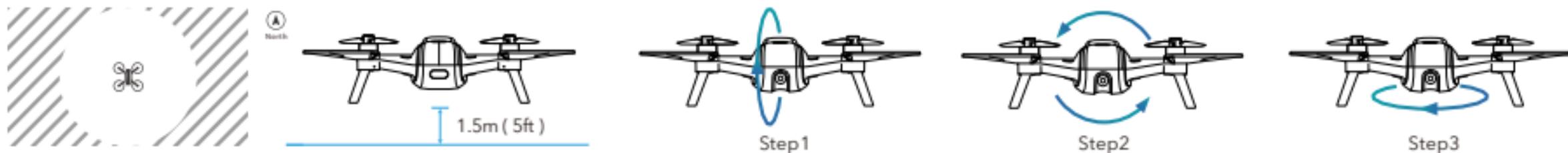
1. Tap [] and select []. Tap [] to enter the firmware upgrade interface.
2. Tap [] to search for the latest firmware.
3. Tap [] to download the firmware.

NOTICE: If you have installed the latest firmware, a notice will pop up on screen that says: "You currently have the latest firmware installed on your system".

4. Tap [] to proceed.
5. Bind your device to Breeze.
6. Tap [].
7. Wait until upgrade is completed and restart Breeze.

9. COMPASS CALIBRATION

NOTICE: Only calibrate the compass in open areas/fields far away from cars, power lines and other metallic surfaces/structures. Make sure that your Breeze is placed level and about 1.5m (5ft) above the ground.



Tap [] and select Drone Settings, and then swipe the screen to "Compass Calibration". Follow the on-screen animations to complete the calibration.

The LED indicator blinks white or yellow during the whole compass calibration process, when you complete the process, the LED will blink green and Breeze will emit an audible sound. Recalibrate the compass if the LED blinks red as this means calibration has failed.



10. PROGRAMMING YOUR DRONE SETTINGS

Tap [] on the main interface and select [ Drone Settings], you can set the default height after take off, name the drone, set flight boundaries, complete compass calibration and enable/disable liability disclaimer.

11. UNDERSTANDING THE FLIGHT MODES

Tap the [] icon to enter the TASK page and there are five flight modes for you to select with:



12. PLACEMENT BEFORE TAKING-OFF

First, ensure the area around the Breeze is cleared for flight, then tap [] to start the motors and lift Breeze off the ground. When Breeze

lifts off the ground surface, it will fly to default height(1 meter) and hover in space above the take-off point.

To bring Breeze back to the take-off point and auto land, tap []. Tap the icon again to pause returning home at any time in case of emergency.

To land in the same position you are hovering, tap [] on the bottom left. Tap the icon again to pausing landing in case of emergency.

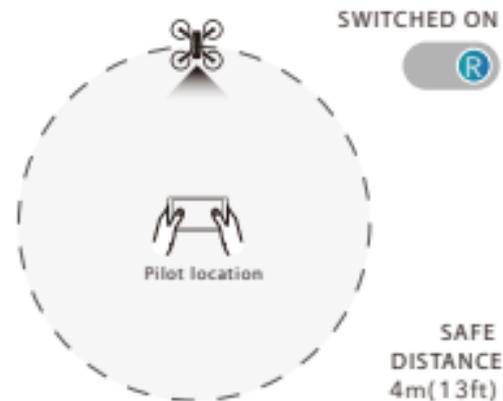
GEO FENCE

Breeze comes out of the box with the GEO Fence feature turned on. This feature prevents unwanted flyaways by setting the vertical fence and distance fence.

NOTICE: The maximum flight height for PILOT\SELFIE\ORBIT\FOLLOW ME is 80m(Default Value:60m). The maximum distance for PILOT\ORBIT POI\FOLLOW ME is 100m(Default Value: 60m).

FLIGHT LOG

Tap [] and select [ Support], you will find FLIGHT LOG icon on the right corner of the "Support" interface. The Flight Log is designed to record your total flights, including flight time, flight date and flight location.



NOTICE AND WARNINGS

Breeze may drift or fail to position when it flies indoors because the performance of the Indoor Positioning System can be affected by light intensity and ground texture. You should not operate Breeze in the following situations:

1. Flying over particularly sparse surfaces or surfaces without clear patterns/textures;
2. Flying over highly reflective surfaces or surfaces with reflections;
3. Flying over water or waterlogged surfaces;
4. Flying over moving surfaces or objects (such as above large crowds or strong wind blowing over grass or shrubs);
5. Flying in an area where the lighting changes frequently or drastically;
6. Flying over extremely dark or bright surfaces;
7. Flying over surfaces with identical repeating patterns or textures (e.g. tiles with the same design; carpet with the repeating patterns);
8. Flying rapidly at an altitude of less than 0.3 meters off ground, the Indoor Positioning System may fail to help Breeze recover to hovering;
9. Install the propeller protectors when you operate Breeze indoors;
10. Disable GPS and use Pilot mode with Indoor Positioning System when you fly Breeze in an outdoor area with poor quality GPS signal like in-between two tall buildings for better results;
11. Replace the altered/damaged propellers in time;
12. Always keep the glasses clean for best performance. Clean the glasses with soft cloth;
13. Use the emergency button with great caution. Switching off the motors mid-flight may result in an uncontrolled descent and might possibly lead to damage to your Breeze and its surroundings.

GENERAL WARNINGS

1. Breeze is not suitable for children under 14 years of age.
2. Breeze is designed for leisure purposes. The pilot must always maintain direct visual contact with Breeze and monitor its trajectory. Breeze must be used in accordance with the civil aviation regulations in your country.
3. Always operate your Breeze in open areas that are free from people, vehicles and other obstructions. Never fly near or above crowds, airports, train stations and other public places to ensure the safety of people, animals and property at all times.
4. Do not attempt to operate Breeze in potentially dangerous areas including areas near buildings, high voltage power lines or other obstructions that do not offer a clear view of the sky and can restrict GPS reception.
5. Do not use Breeze in adverse weather conditions such as rain, strong winds and snow, or in poor visibility conditions, for example, at night.
6. Avoid Breeze being exposed to direct sunlight.
7. Do not touch Breeze while it is in flight! Wait until the propellers have completely stopped before handling Breeze.

WARNING ON INVASION OF PRIVACY

Recording and circulating an image or the voice of person without their consent could constitute an infringement of their image and privacy rights and incur your liability. Ask for consent before filming people and recording their voices, particularly if you want to keep your recordings and/or share them on the Internet.

Do not share any degrading images or sounds which could undermine the reputation or dignity of an individual.

DISCLAIMER

Yuneec Electric Aviation cannot be held liable for any damage, injury or for use of the product in violation with legal regulations, especially in the following circumstances: Damage and / or injury as well violation of legal regulations resulting from a failure to comply with the operating instructions or the instructions at www.yuneec.com, product information, user manual and other legally binding information.

Damage and/or injury as well violation of legal regulations brought about by the influence of alcohol, drugs, medication or other narcotics which may impact on the concentration of the user.

The same applies to illnesses effecting the concentration of the user (dizziness, tiredness, nausea etc.) or other factors compromising mental and physical capabilities.

Intentionally caused damage, injury or violation of legal regulations.

Any request for compensation caused by an accident resulting from use of the product.

Damage and/or injury as well as violation of legal regulations caused by use of the product in a no-fly zone, e.g. next to an airfield, above a motorway or a natural conservation area.

Malfunction of the product caused by retrofitting or replacement with components which did not come from Yuneec Electric Aviation.

Damage and/or injury caused by the use of replica parts (non-original parts).

Damage and/or injury as well as violation of legal regulations caused by incorrect operation or misjudgement.

Damage and/or injury caused by damaged spare parts or not using original Yuneec Electric Aviation spare parts.

Damage and/or injury as well as violation of legal regulations caused by ignoring the low voltage battery warning.

Damage and/or injury caused by knowingly and negligibly flying with a damaged model or one which is unfit to fly, e.g. due to dirt, water penetration, coarse particles, oil or a model which has not been correctly or completely assembled or if the main components exhibit visible damage, defects or

missing parts.

Damage and/or injury as well as violation of legal regulations caused by operating the model in a magnetic field (e.g. high voltage lines, electricity/transformer stations, radio towers, mobile phone masts etc.), a strong wireless signal environment, no-fly zones, poor visibility and in the event of vision impairments or other impacts on the pilot which are left unchecked etc.

Damage and/or injury brought about through a violation of the legal regulations for operating the model, in unsuitable weather conditions, e.g. rain, wind, snow, hail, storms, hurricanes etc.

Damage and/or injury as well as violation of legal regulations caused by force majeure, e.g. collision, fire, explosion, flooding, tsunami, landslide, avalanche, earthquake or other forces of nature.

Damage and/or injury as well as violation of legal regulations caused by the illegal or immoral use of the model, e.g. capturing videos or recording data which infringes upon/harms the privacy of other people.

Damage and/or injury as well as violation of legal regulations caused by incorrect use of the batteries, protection systems, chargers or aircraft.

Consequential damage caused by the incorrect operation of any kind of system components and accessory parts, especially memory cards, whereby image or video material from the camera can become defect.

Any non-compliance with legal obligations, personal injury, material damage and environmental damage caused by use and a failure to comply with the local laws and regulations.

Damage and/or injury as well as violation of legal regulations caused by hazardous use without sufficient practical experience.

Damage and/or injury as well as violation of legal regulations caused by flying in legally defined no-fly zones.

Further losses which do not fall within the scope of use defined by Yuneec Electric Aviation as improper.

This product is designed for both professional use and personal, private use. The national and international laws and regulations in force as the time of taking off must be adhered to.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for 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 to 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 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.

–Consult the dealer or an experienced radio/TV technician for help.

RF EXPOSURE WARNING

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

IC RADIATION EXPOSURE STATEMENT FOR CANADA

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. Cet équipement respecte les limites d'exposition aux rayonnements IC définies pour un environnement non contrôlé

NCC WARNING STATEMENT

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery. The application of low power frequency electric machineries shall not affect the navigation safety nor interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

CE WARNING STATEMENT

Wi-Fi function of this device is restricted only to indoor use when operating in the 5150-5250MHz frequency range.

COLLECTION AND PROCESSING OF DATA

Yuneec may collect navigation information such as GPS data to help improve our products. We may also collect Depth Map information and Infrared Image information from your drone delivered to our service center for repair and maintenance service or any other service. We may also collect other information such as device information, server log information, etc. We may also collect personal information used in registration if you choose to become a registered user and any other information user provided to Yuneec. We may also collect information which user send to other users, and the recipients and senders of such information.

We reserve the right to disclose your information if required to do so by law or in the good-faith belief that such disclosure is needed to comply with applicable laws, for example in response to a court order, judicial subpoena, warrant or request from government, or otherwise cooperating with government agencies or law enforcement. We also reserve the right to disclose your information that we believe in good faith is necessary or appropriate to: (i) protect ourselves or others from fraudulent, unlawful, or abusive activities; (ii) take precautions against potential liability; (iii) protect the security of the Yuneec Apps embedded into or downloaded onto your drone or any associated equipment and services; (iv) protect the legal rights of ourselves or any others.

Any information we collected maybe disclosed or transferred to an acquirer, successor or assignee as part of any potential merger, acquisition, debt financing or other activities that involves transfer of business assets.

We may make the aggregated non-personal information of the users available to third parties for various purposes, including (i) complying with various report obligations; (ii) marketing efforts; (iii) analyzing product safety; (iv) understanding and analyzing our users' interests, habits, usage pattern for certain functionalities, services, content, etc.

CUSTOMER SERVICE

MANUFACTURER:

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*Any information above might be changed due to the software update. For the latest documents, please check the official website.

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