

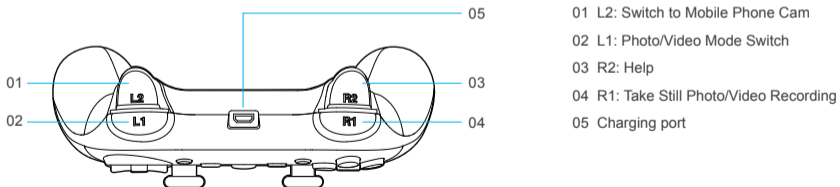
# Breeze FPV Controller

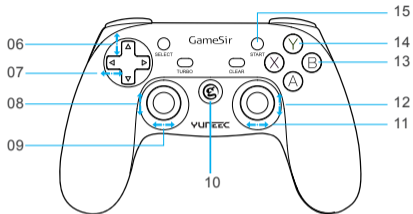
USER MANUAL

## INTRODUCTION

Breeze FPV Controller allows users to pilot their Breeze in a new way. The portable Game Controller is connected to the smart device via Bluetooth, and enables users to control the Breeze accurately with physical joysticks and buttons. It is compatible with the Breeze Cam application (Breeze Cam is a remote control application for Breeze) on iOS devices (above iOS 8.0 version) and Android devices (above 4.4 version), so you can use them instead of the touch screen of your smart device to control the Breeze. Meanwhile, it turns your smart device into a display screen, making every moment you shoot look smooth, professional and ready to share. The Breeze FPV Controller features two view modes: FPV Mode and Normal Mode. You can view the images through the FPV Goggles or from your smart device.

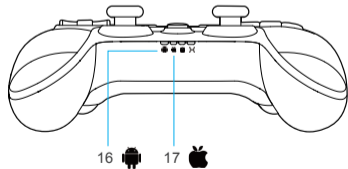
## OVERVIEW





- 06 Gimbal Tilt Trim
- 07 Drone Yaw Trim
- 08 Altitude/Throttle Control
- 09 Yaw/Rudder Control
- 10 Power Button
- 11 Roll/Aileron Control
- 12 Pitch/Elevator Control
- 13 B: Parameters Hidden
- 14 Y: GO HOME
- 15 Start Button:

Press the Start Button for 3 seconds to take off  
Press the Start Button to land/cancel landing during flight



- 16 Android Mode indicator light
- 17 Apple Mode indicator light

## SPECIFICATIONS

- Working Platforms: iOS/Android
- Working Temperatures: -20~65
- Working Humidity: 20~80%
- Connection Types: Bluetooth
- Charging Voltage: 3.7~5.2V
- Charging Time: 2-3H
- Charging Current: 1A-2A
- Working Distance: Approx.7M
- Battery Capacity: 600mA
- Product Size: 160 x 104 x59mm
- Net Weight: 189g

## PREPARATIONS

### 1. CHARGING THE BATTERY

#### 1. Charge under connection state

After connecting the charging cable, Power button and ABXY lights flash once/2 seconds, and the lights keep on when fully charged.

#### 2. Charge under sleeping state

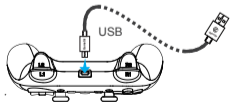
After connecting the charging cable, the Game Controller turns on and enters current mode, no signal receiving after 1 minute, mode lights turn off. Power button and ABXY lights start flashing, and the lights keep on when fully charged.

#### 3. Low Battery Indication

Power button and ABXY lights flash once/second.

**NOTICE:** The Game Controller enters sleep state after 1-minute disconnection.

**NOTICE:** The Game Controller enters sleep state after 5-minute no action.



**Battery Warnings:**

- To charge the LiPo 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. POWERING ON/OFF & CONNECTION PREPARATION**

1. Power on: Press Power button for 2 seconds to start the Game Controller.
2. Power off: Press Power button for 5 seconds to power off the Game Controller.
3. Connection Preparation

Connection Preparation for iOS platform:



Step 1) Press Y and then Power button for 2 seconds to start the Game Controller.

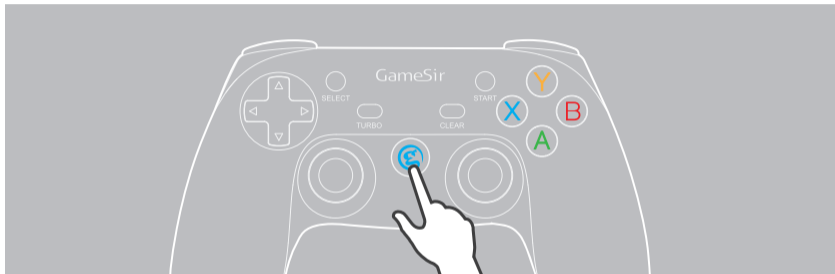
Step 2) The [  ] indicator light flashes.

Connection Preparation for Android Platform:

Step 1) Press the A button and then Power button for 2 seconds to start the controller.

Step 2) The [  ] indicator light flashes.

**NOTICE:** When the [  ] or the [  ] indicator light flashes, the Game Controller enters the "Connection" mode, and the Game Controller is ready to be paired with your smart device via Bluetooth.



### 3. DOWNLOADING THE BREEZE CAM APPLICATION


Download the Breeze Cam application on your smart device, available for free on the App Store and Google Play Store.



#### 4. BREEZE CONNECTION

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.

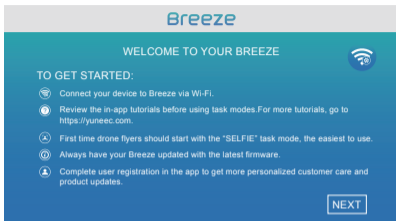
**METHOD 1:** If you are using an iPhone, select Settings > Wi-Fi ;If you are using an Android smart phone, select Settings > Wireless and networks > Wi-Fi. Select the network: BreezeXXXXXX and enter the Password: 1234567890.


**METHOD 2:** Tap [  ] icon in the upper right corner and you can connect the Wi-Fi network directly. Select the network: BreezeXXXXXX and enter the Password: 1234567890.

#### 5. UNDERSTANDING THE VIEW MODES WITH GAME CONTROLLER

##### FPV MODE

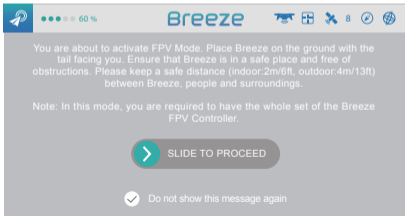
Step 1) Tap the [  ] icon to enter the TASK page.





Step 2) There are 6 Flight Modes for you to select in the Task page. To enter the FPV Mode, you can select the [  ] icon.





Step 3) Slide the "SLIDE TO PROCEED" bar to confirm that you have entered the FPV Mode.



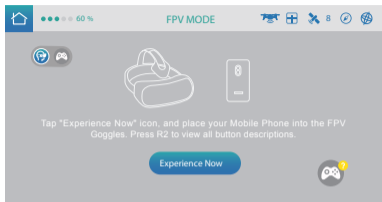


Step 4) Tap the [  ] icon in the lower right corner of the screen and a window will pop up. In the pop-up window, select "Allow" to turn on Bluetooth on your smart device. When the [  ] icon disappears from the screen, that means the Game Controller is connected to your smart device via Bluetooth successfully.

Step 5) Tap the "Experience Now" icon on the screen, and place your smart device in the FPV Goggles. You can view the images through the FPV Goggles.

**NOTICE:** When the Game Controller is connected to your smart device successfully, the Game Controller vibrates, and the [  ] or the [  ] indicator light keeps on.

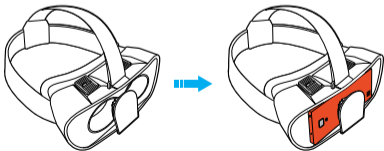
**NOTICE:** In this mode, you can use the Game Controller to pilot your Breeze instead of the on-screen buttons within the Breeze Cam app.



### Installation Method for the FPV Goggles

Step 1) Before using your FPV Goggles, install the head belt and make sure the velcro is facing outside, adjust it until you feel comfortable.

Step 2) Open the buckle, and place the smart device in the front part of the FPV Goggles and adjust the position of the smart device until secure. The smart device must be aligned with the FPV Goggles' centerline. To finish, close the buckle.



## Recommendations

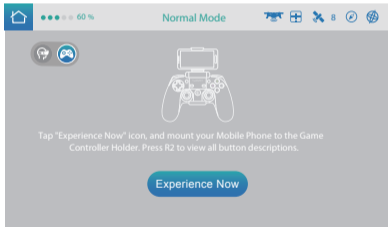
- If you wear glasses normally, please keep wearing glasses while using this device.
- Charging the smart device while using FPV Goggles is strictly forbidden.
- We suggest users take a break every 30 minutes in order to prevent visual fatigue.
- If you find that the 3D image doesn't match together, you can open the buckle and adjust the smart device's position slightly in order to get a clear image.

## NORMAL MODE

Step 1) Tap the [ 🎮 ] icon in the upper left corner of the screen, to switch from FPV Mode to Normal Mode. (FPV Mode and Normal Mode can be switched by pressing the [ 🧐 ] icon and [ 🎮 ] icon.)

Step 2) Tap the "Experience Now" icon on the screen, and mount your smart device to the Game Controller Holder. You can view the images on your smart device with the Game Controller.

**NOTICE:** In this mode, you can use the Game Controller to pilot your Breeze instead of the on-screen buttons within the Breeze Cam app.



**Installation Method for the Game Controller Holder:**

**Step 1)** Press the buckle of the holder downward to unlock.

**Step 2)** Pull up the Clamp Retainer.

**Step 3)** Attach Game Controller to the clip then pull back the clamp retainer.

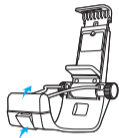
**Step 4)** Button up the buckle.

**Step 5)** Open the seat of the holder and mount your smart device.

**Step 6)** Loosen the smart device holder' s screws.

**Step 7)** Adjust the angle to fit your phone.

**Step 8)** Tighten the screws.

**NOTICE AND WARNING**

- Avoid strong vibration, do not disassemble, refit or repair on your own.
- Do not keep in humid, high temperature or soot place.
- Avoid water or other liquid in the Game Controller and the FPV Goggles, it may affect the performance of these devices.
- Keep away from fire, the built-in battery has danger of explosion.
- Charging voltage is USB 3.7-5.5V DC supply (normal Android smart phone charging power can be used).
- Children should be under adult' s supervision to use this product.
- Please contact the distributor or our after-sale service staff if you have any quality problem or suggestions.

## 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](http://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 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 amagnetic 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, where by 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 at 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.

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## **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 license-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 déniées pour un environnement non contrôlé.

## 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

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