



Hula

Quick Start Guide V1.0

Disclaimer

- 1. Children under the age of 14 should use this Product under the supervision of an adult.
- 2. This Product is a multi-rotor aircraft that offers an easy flight experience when powered normally and with all components undamaged. Please visit the official website of Shenzhen HighGreat Innovation Technology Development Co., Ltd.(hereinafter referred to as "HighGreat Innovation") to obtain the complete *User Manual* as well as the latest instructions and warnings. HighGreat Innovation reserves the right to update all documents.
- 3. The information in this document affects your safety and your legal rights and responsibilities. Read this entire document and the *User Manual* carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings in this document may result in property loss, safety incidents, and personal injury risk. 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. Users undertake to be responsible for his / her own actions and all consequences arising therefrom. Users agree to use this Product only for legitimate purposes and to abide by these terms and conditions in this clause and any related policies or guidelines that may be established by HighGreat Innovation. You understand and agree that without flight records from the APP, HighGreat Innovation may be unable to analyze the causes of product damage or accidents and may not be able to provide you with HighGreat Innovation's after-sales service.
- 4. HighGreat Innovation assumes no responsibility for any loss or damage resulting from users' failure to follow the instructions in this document and the *User Manual* when using this Product. Subject to compliance with laws and regulations, HighGreat Innovation reserves the right to final interpretation of this document. HighGreat Innovation reserves the right, at any time, to update, revise, or terminate these terms without prior notice.

Warnings

- 1. Please stay away from the high-speed rotating propellers to prevent cuts.
- 2. The propeller motors are heat-producing components. Please do not touch to avoid burns.
- 3. In order to ensure the electromagnetic environment of the aviation radio station, it is forbidden to use all kinds of model remote controls in the area with the airport runway as the center point and a radius of 5000 m. During the period when the radio control commands are issued by the relevant state departments, the model remote control shall be stopped as required.
- 4. Please use the dedicated batteries equipped. DO NOT short-circuit the positive and negative terminals of the battery.
- 5. The product package and the manual contain important information and should be retained.
- 6. Please use this Product within the operating environment range specified in the specifications.
- 7. DO NOT direct the laser at human eyes to avoid causing eye injuries.

Flight limit

The user acknowledges and agrees to be responsible for all consequences arising from the use of the aircraft.

1. Fly NO higher than 10 meters above ground level and stay away from any tall

- buildings.
- 2. Fly in conditions with wind speed below class 3. DO NOT fly outdoors during thunderstorms or typhoon weather.
- 3. Indoor environments can be complex. When flying indoors, please assess thoroughly whether the flight environment is safe.
- 4. Maintain a distance of at least 2 meters between the aircraft and any pedestrians when you operate the aircraft.
- 5. Use the aircraft in an environment with clear ground textures and without strong light exposure. Flying over water surfaces or mirrored surfaces is strictly prohibited.

Instructions for handling glitches

1. If there is a glitch on the aircraft, please contact official channels for repair service.

Laws and regulations

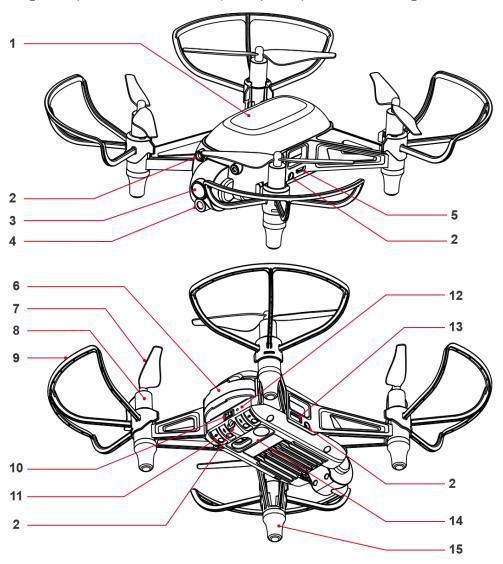
Please comply with the local laws and regulations when using the aircraft to avoid possible injury and damage.

Please observe the following rules:

- 1. DO NOT fly the aircraft in the vicinity of manned aircraft. Land your aircraft immediately when necessary.
- 2. DO NOT fly the aircraft in or at densely populated areas, including but not limited to cities, sports stadiums, exhibitions, and concerts.
- 3. Make sure that your aircraft does not interfere with manned aircraft operations. Be aware of and avoid any other aircraft at all times.
- 4. DO NOT fly in the no-fly zones specified by local laws and regulations. No-fly zones include airports, borderlines, power plants, hydropower plants, prisons, heavily traveled roadways, government buildings, military facilities, and major cities.
- 5. DO NOT fly the aircraft above the authorized altitude.
- 6. Keep your aircraft in sight at all times and arrange for an observer to assist you in monitoring the aircraft's position if needed.
- 7. DO NOT use the aircraft to transport dangerous or contraband items.
- 8. Make sure you understand the type of your flight operation (such as for recreation, for public use, or for commercial use). You have to obtain the corresponding license from the related agencies before the flight. If necessary, you can consult with local legal professionals for detailed definitions and explanations of flight activity categories. Please note that in certain regions and countries, the use of aircraft for any form of commercial activity is prohibited.
- 9. Respect the privacy rights of others when using the aircraft for photo taking. DO NOT conduct surveillance operations without authorization. These operations include but are not limited to conducting surveillance on any person, entity, event, performance, exhibition, or building.
- 10. Please be advised that in certain regions or countries, the recording of images and videos of any person, entity, event, performance, exhibition, and so on by means of a camera may contravene copyright or other legal rights, even if the image or video is not shot for commercial use. In certain regions and countries, the use of small aerial models for commercial purposes is also prohibited. Therefore, please carefully understand and comply with the local laws and regulations before use.

Introduction

Hula is a programmable educational aircraft designed specifically for teenagers. It supports various terminal devices for programming flight using Scratch and can also be wirelessly controlled for flight through the Hula APP. The aircraft is equipped with a visual positioning system, gimbal system, image transmission system, obstacle avoidance system, and flight control system. It can perform functions such as 1080P HD image transmission, photo-taking, video-recording, AI recognition, obstacle avoidance, line patrol, and various flight stunts.



- 1. Lamp cover
- 6. Battery
- 11. Obstacle Avoidance Adjustment Knob

- 2. Infrared Obstacle Avoidance Transmitter
- Obstacle 7. Propeller
- 12. Reset Button

- 3. Gimbal/Front Camera
- 8. Motor

13. Expansion Serial Port

- 4. Laser Transmitter
- 9. Propeller Guard
- 14. Visual Positioning System

- 5. Micro USB Port
- 10. Power Button
- 15. Foot mats

Technical specifications

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	above
Hula software version	64-bit operating system (Windows 10 or
for PC	above)

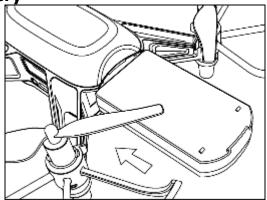
- ① The wind resistance data is obtained in the standard wind tunnel laboratory under hovering conditions.
- ② The maximum flight speed is determined by the actual flight environment. This speed listed here is the maximum flight speed in the optical flow positioning mode. The maximum flight speed in the APP control mode is 1.5 m/s. In programming mode, the recommended flight speed is 0.5 m/s~1 m/s.
- The flight time is measured at a height of 2 m, with the lighting powered off, the low-power landing function disabled, and the drone hovering in windless conditions.
- ④ In the line patrol flight mode, the video resolution automatically switches to 360p/30 fps.

The above data is measured in a standard experimental environment, and may vary with the change of environment or firmware! The right of final interpretation belongs to Shenzhen HighGreat Innovation Technology Development Co., Ltd.

Hula noise measurement (Normalized to 1 m from drone) schedule:

Observation		Hover	Moving 1 m/s		
Ground	(vertically	71.1 dB (A)	75.2 dB (A)		
below)					
Side (contour plane)		70.2 dB (A)	76.2 dB (A)		
Note: The test environment was a full anechoic chamber.					

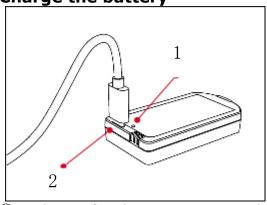
Install the battery

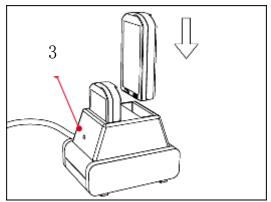


Insert the flight battery into the aircraft as shown.

Hold the aircraft body steady, place the side with a sticker of the battery facing downward, and insert it into the battery compartment on the back of the aircraft. Push it in until you hear a click, which indicates that the battery is properly installed.

Charge the battery





① Indicator for charging status on the battery, ②USB charging port, ③ Indicator for charging status on the charging box.

Using USB direct charger:

Solid red, charging;

Red light being off, charged;

Using charging box: Solid red, charging;

Solid green, No pulgged in or charged;

Hula supports two charging methods. You can use a standard Micro USB cable to connect the battery's Micro USB port to your own USB 5 V charger for charging, which takes about 1 hour and 40 minutes. Alternatively, you can insert the battery into the dedicated charging box for charging, which takes about 1 hour.

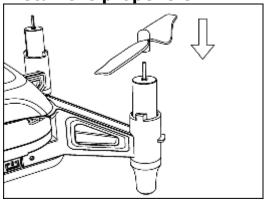


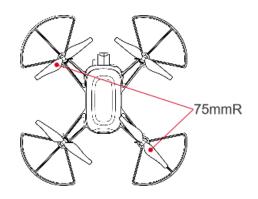
Please use the dedicated charging box equipped by HighGreat Innovation to charge the battery.

In case the battery gets wet, swells, leaks, emits unpleasant odors, deforms, or exhibits any other abnormalities, please stop using it immediately.

Please use a 5V 3A power adapter for the charging box.

Install the propellers



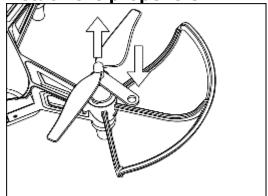


When mounting, ensure that the gap between the bottom of the propeller cap and the motor is no bigger than needed to insert the propeller removal tool.



Please note that the propeller blades with "75 mmR" markings should be installed on the top left and bottom right sides of the aircraft nose, while the propeller blades with "75 mm" markings should be installed on the top right and bottom left sides of the nose. Failing to follow this configuration may result in the aircraft not being able to take off properly.

Detach the propellers



Insert the propeller removal tool between the propeller cap and the motor, press down on the other end of the removal tool, and then remove the propeller blade.



Always detach the propellers using the propeller removal tool. DO NOT remove the propellers by hand, or you may be seriously hurt and may damage the motors.

Aircraft operation guide

1. Download the Hula APP

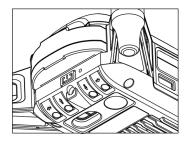
Click the URL link to download the APP on your PC: https://download.hg-fly.net/app/hula_pc.html
Scan the QR code to download the APP on your mobile devices (Android/iOS):



2. For more instructions on usage and operation, please scan the QR code below to get the latest version of the electronic edition of the *User Manual*.

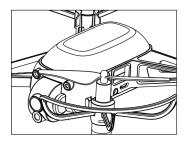


3. Direct connection mode for aircraft connection



Press and hold the power button on the back of the aircraft for 2 seconds to power on/off the aircraft.





After the aircraft is powered on, it is in the direct connection mode if the lamp cover flashes with purple light.





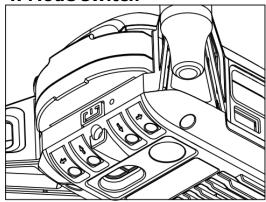
Connect your PC/mobile device to the aircraft WiFi, and the initial password is 12345678.



Run the Hula APP, and when the aircraft status indicator stays solid green and the APP indicates a successful connection to the aircraft, it means the aircraft is successfully connected.

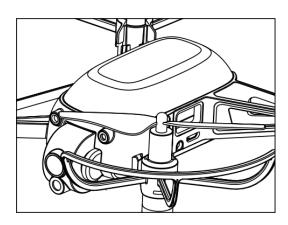
By default, the aircraft is set to the direct connection mode. If you have switched modes, press the power button three times to switch back to the direct connection mode.

4. Mode switch



While the aircraft is powered on, you can press the power button three times quickly to switch between the direct connection mode and the networking mode.





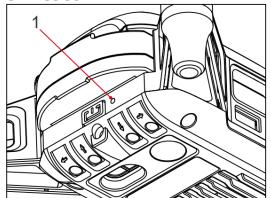
When the aircraft is switched to the direct connection mode, the lamp cover will flash with purple light.

When the aircraft is switched to the networking mode, the lamp cover will flash with white light.

Direct connection mode: Connect the PC/mobile device directly to the aircraft WiFi and control the aircraft using the Hula APP.

Networking mode: Connect both the PC/mobile device and the aircraft to your own router WiFi. In networking mode, multiple aircrafts can network together to compete on the same stage.

5. Reset



① Reset hole

- 1. Press and hold the reset button inside the reset hole for 5 seconds, and the aircraft WiFi will be restored to factory settings. If the green light of the aircraft blinks fast after releasing, the aircraft is reset successfully.
- 2. Press and hold the reset button inside the reset hole for 10 seconds to revert the firmware version of the aircraft to the previous one. If the aircraft restarts automatically after releasing, the aircraft is reset successfully.

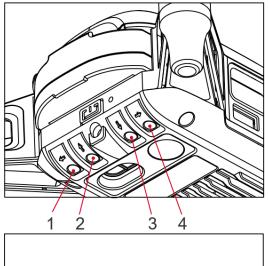
DO NOT perform the reset operation violently in case you may damage the internal components of the aircraft.



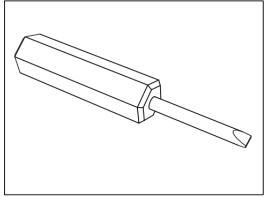
The infrared obstacle avoidance receiver is placed inside the lampshade, do not block the lampshade.

The obstacle avoidance distance has been adjusted before delivery, and the effective distance of obstacle avoidance is about 30-50cm. If it is necessary to adjust it again, please use the whiteboard to adjust it under ordinary lighting conditions in the room. The obstacle avoidance distance of the reflected object is different in material or color.

6. Four-way obstacle avoidance adjustment



- ① Left obstacle avoidance adjustment knob
- ② Rear obstacle avoidance adjustment knob
- ③ Front side obstacle avoidance adjustment knob
- 4 Right obstacle avoidance adjustment knob



- 1. Use a special screwdriver for obstacle avoidance adjustment knob, insert the adjustment screw hole, and turn the knob clockwise/counterclockwise to adjust the obstacle avoidance distance in each of the four directions.
- 2. The obstacle avoidance distance can be reduced by turning the obstacle avoidance adjustment knob clockwise. Turn the obstacle avoidance adjustment knob counterclockwise to increase the obstacle avoidance distance.



DO NOT twist the knob violently in case you may damage the internal components of the aircraft.

7. Flight operation guide

Run the Hula APP and enter the "Single driver" mode. The APP supports switching between the American hand mode and the Japanese hand mode.

Takeoff/Landing

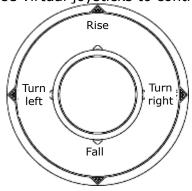


Press and hold for 1.5 seconds to take off

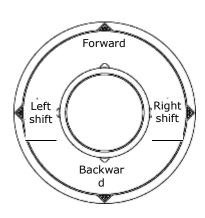


One-button landing

Use virtual joysticks to control flight

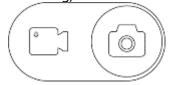


Left joystick



Right joystick

Photo-taking/video-recording



Switch between photo-taking mode and video-recording mode



Photo-taking or video-recording

FCC Statement

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example-use only shielded interface cables when connecting to computer or peripheral devices).

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

This equipment 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.

Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ICC Statement

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Radiation exposure statement:

The device complies with the RSS radiation exposure limits set for uncontrolled environments. The device must be installed and used with a minimum distance of 20cm between the radiator and the body

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) Iutilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le broullage est susceptible d'en compromettre le fonctionnement.

Déclaration d'exposition aux rayonnements:

L'équipement est conforme aux limites d'exposition au rayonnement RSS établies pour les environnements non contrôlés. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps

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The official website of HighGreat Innovation



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