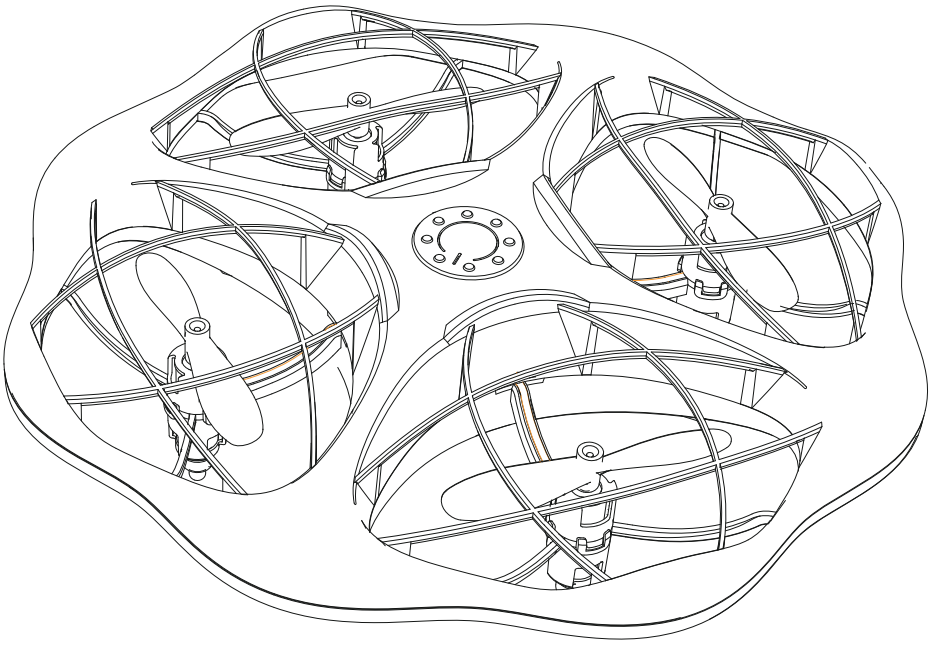
DEERC

Instructions For Use
Gebrauchsanweisungen
Instruction d'utilisation
Istruzioni per l'uso
Instrucciones de Uso

V 1.0



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Contents

1.0 DISCLAIMER & WARNING

1. Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damages caused while using this product, and its consequences. You agree to only use this product for it's designed purposes and in accordance with local laws, regulations and all applicable policies and guidelines that Deerc may provide.

2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury, property damage, legal disputes and all other adverse events caused by the violation of any of the safety instructions or due to any other factor, WILL NOT be Deerc's responsibility.

2.0 SAFETY GUIDELINES

2.1 Check Before Use

① This product is a high precision drone that integrates various electronic stability and control mechanisms. Please be sure to configure this drone carefully and correctly to ensure safe, accident-free operation.

② Ensure that the batteries of the drone and transmitter are clean, undamaged and fully charged before every use.

③ Ensure that all the propellers are undamaged and are installed in the correct orientation.

④ Please perform a thorough check of the product before each use. Inspect the integrity of the parts, any signs of cracks and wear off on the propellers, battery power and effectiveness of the indicator, etc. If there is any problem found after checking the drone, please refrain from using it until the problem is resolved.

2.2 Flight Environment

Fly in Open Areas + **Maintain Line of Sight** + **Fly Below 98 feet (30 m)**

Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airports or bodies of water.
DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.
DO NOT use this drone at night.

DO NOT use this drone in adverse weather conditions such as rain, snow, fog, and wind.

2.3 Operation Requirements

① DO NOT use this product to follow any moving vehicles.
② During the flight, turn off the motors only in case of an emergency.
③ When the battery runs low, return the drone back to your starting point.
④ DO NOT use this product if you feel tired, take medicine or feel unwell and drink alcohol.
⑤ Be aware of the volume of noise that the drone produces. Please ensure to keep your distance to avoid ear damage.
⑥ WARNING: This toy produces flashes that may trigger epilepsy in sensitized individuals.

⑦ **Stay away from the rotating propellers and motors.**

⑧ **DO NOT fly in any spaces where drones are prohibited. Please respect people's right to privacy by not flying your drone close to others.**

2.4 Use of Battery

① Please ensure batteries are fitted in the correct orientation as shown in the instruction manual.
② Avoid short circuits by fitting the batteries correctly, and do not crush or squeeze the batteries as this could cause the risk of a fire or explosion.
③ DO NOT mix new and old batteries as this can lead to a poor performance of the product.
④ Please dispose of used batteries carefully, do not litter and recycle where ever possible.
⑤ DO NOT expose dead batteries to heat or fire or they may explode.
⑥ If the device is not going to be used for an extended period of time, please remove batteries to prevent potential damage to the drone from battery leakage.

⑦ Only use the USB charging cable that comes with the drone to charge the battery.
⑧ DO NOT connect the battery directly to wall outlets or car cigarette -lighter sockets as this will damage your battery since they have different voltage.
⑨ DO NOT attempt to disassemble or modify the battery in any way
⑩ DO NOT use the battery if it gives off an odor, generates heat, becomes discolored, deformed or appears abnormal in any way. If any of these situations occur while the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
⑪ DO NOT pierce the battery casing with a nail or any other sharp object, break it open with a hammer, or step on it! Dispose or recycle this battery as it may cause personal injury or damage to your drone.
⑫ Always charge the batteries on a fireproof surface and away from combustible materials. DO NOT charge on surfaces that can catch fire, which includes: wood, cloth, carpet.
⑬ DO NOT immerse the battery in water or get it wet.
⑭ DO NOT solder battery terminal in any way.
⑮ Keep batteries out of reach of children or pets.
⑯ DO NOT short-circuit the battery by connecting wires or any other metal object to the positive(+) and negative(-) terminals.

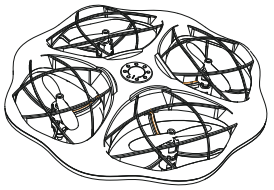
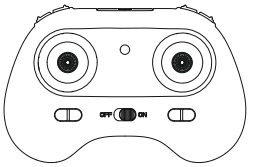
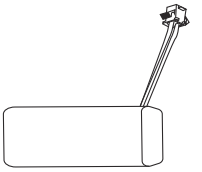
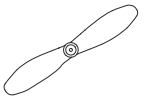
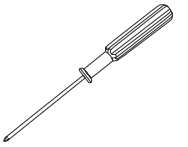
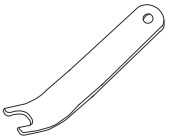
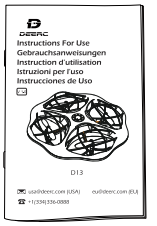
Li-Po Battery Disposal & Recycling

Waste Lithium-polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the waste agency or the supplier of your model or your nearest Li-Po battery recycling center.

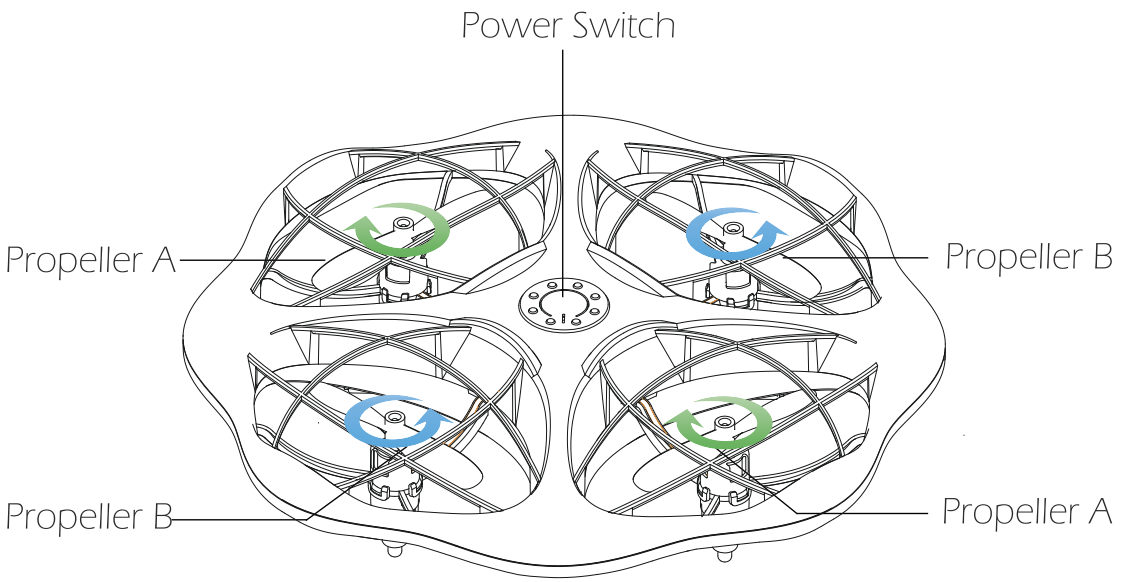
3.0 MAINTENANCE

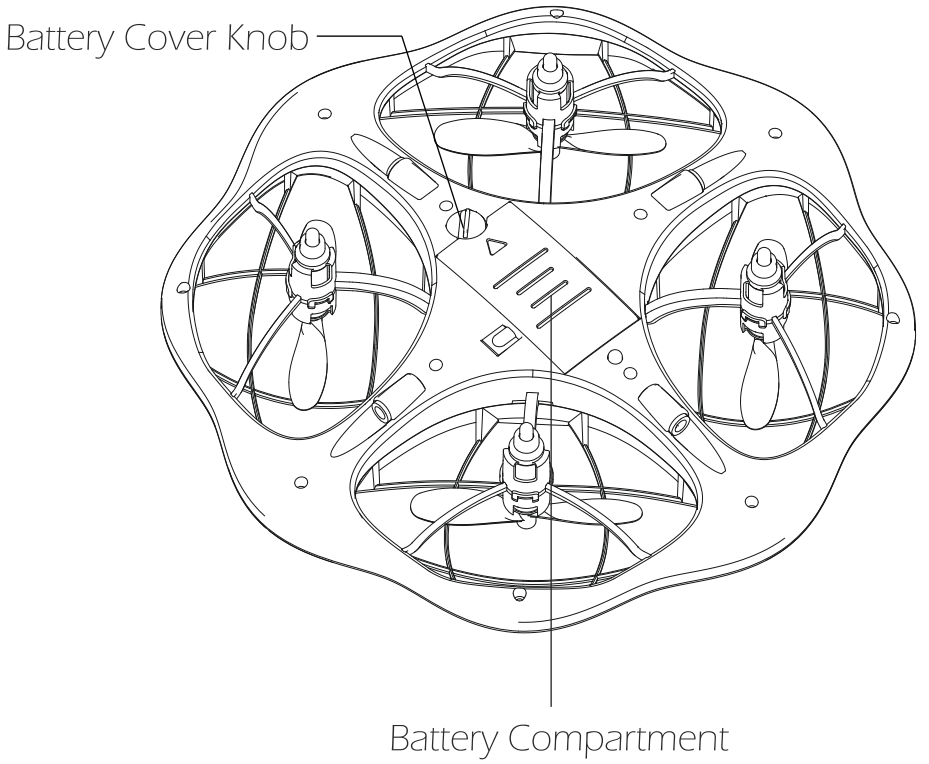
① Clean the drone after each use with a clean, soft cloth.
② Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone or batteries.
③ This device is not waterproof and must not be submerged or subjected to water under any circumstance. Failure to keep the device completely dry may likely damage the unit permanently. Be aware that although it might be dry where you are, droplets of rain or mist from a river or waterfall could damage your drone where it is flying.
④ Frequently check the charging plug and other accessories for signs of damage. If any part of the device or cables are damaged, avoid using or charging until the damaged parts are replaced.
⑤ Pre-Flight: Conduct a thorough inspection of the product, ensuring its cleanliness and the absence of any sticky residues or foreign objects. Confirm that the aircraft, remote controller, and other components are intact and free from damage, the propellers exhibit no signs of cracks or wear, the battery is adequately charged, and the indicator lights function as expected. If any discrepancies or issues are identified during the inspection, it is advised to refrain from using the drone until the concerns are addressed.
⑥ Post-Flight
- Observe the drone for any damage from a potential collision or crash.
- Check to be sure all moving parts including the propellers are secure.
- Check the battery for signs of overheating, warping or swelling. If you notice any abnormality in the battery such as decoloring, remove it immediately from the drone.
- Check the levels and efficiency of the power of the battery.
- Clean all lights and be sure they are all functioning properly for the next flight.

4.0 PACKAGE CONTENTS

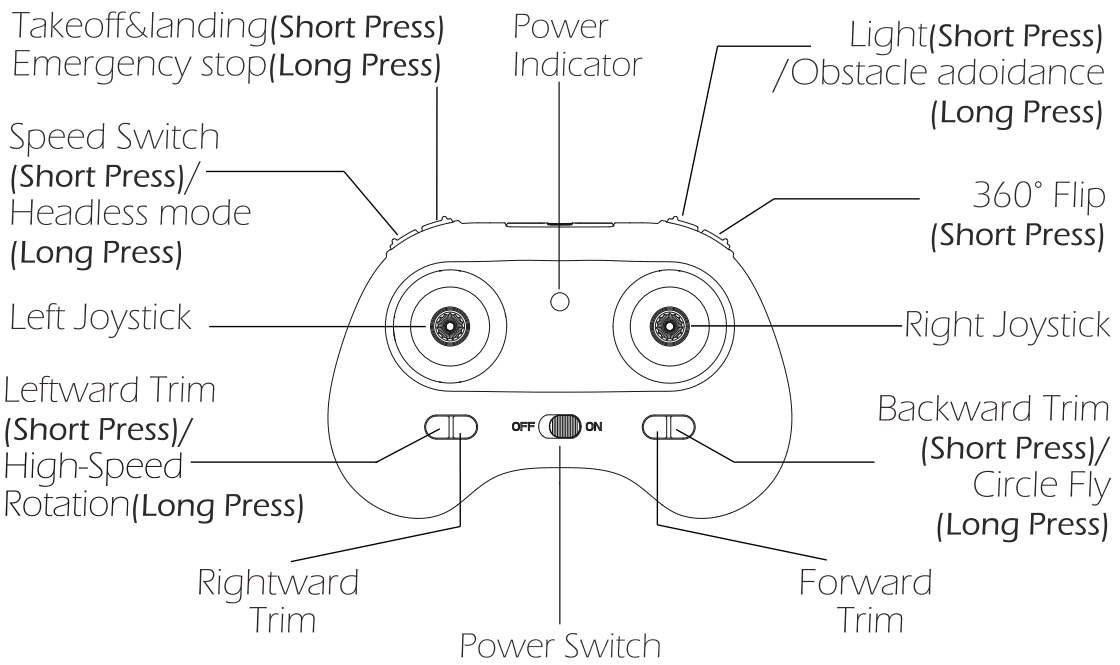
		
Drone	Transmitter	Drone Battery
		
USB Charging Cable	Propeller	Screwdriver
		
Propeller Spanner	Instructions For Use	

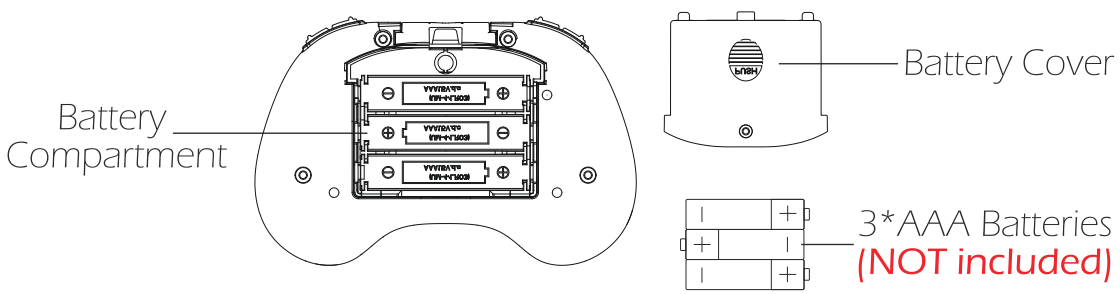
5.0 DIAGRAM OF DRONE





6.0 DIAGRAM OF TRANSMITTER



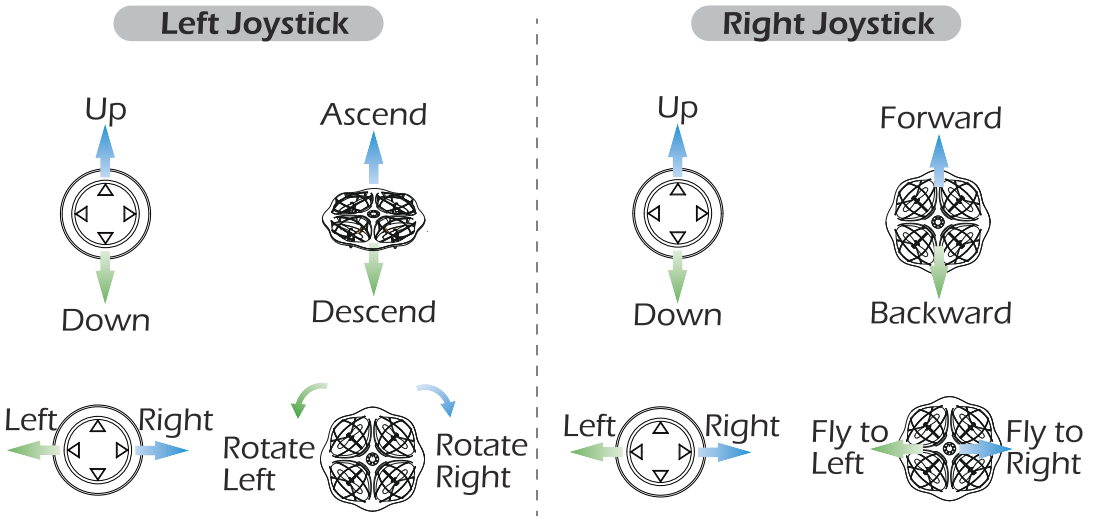


Open the battery cover on the back of the transmitter, insert the three AAA batteries **(Not included)** into the battery compartment, and close the battery cover to complete the installation.

⚠ When installing the batteries, please pay attention to the positive and negative polarity of the battery to ensure the correct installation of the batteries.

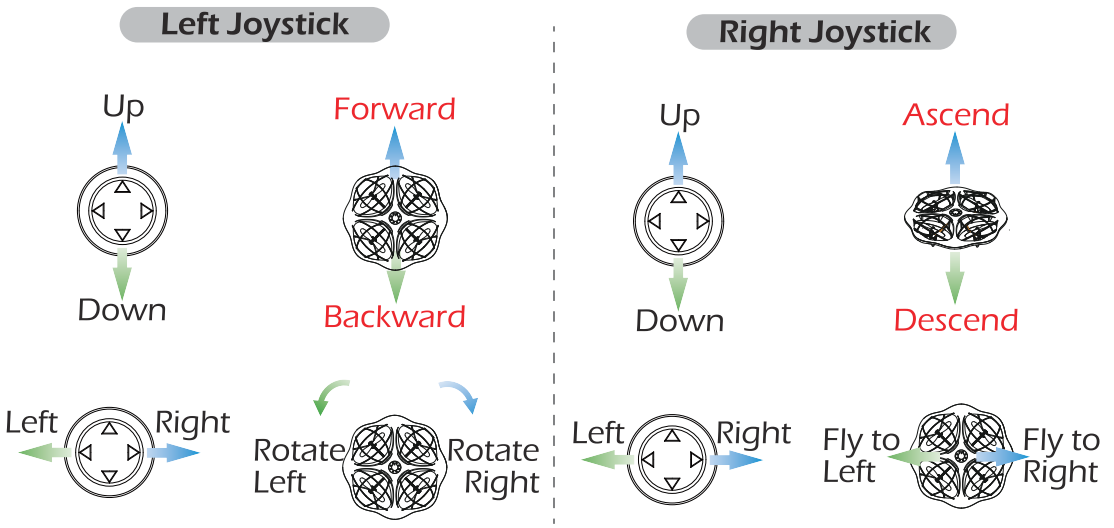
7.0 JOYSTICK MODE

7.1 MODE 2 (Left joystick as the throttle joystick)



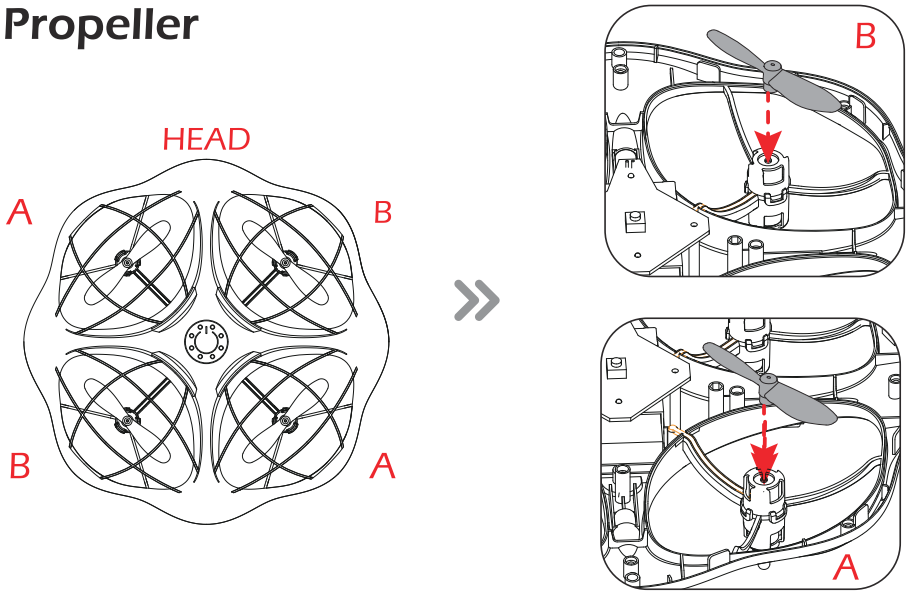
7.2 MODE 1 (Right joystick as the throttle joystick)

To enter MODE 1, turn on the transmitter while holding the (Speed) button. (Please do not release the (Speed) button until the transmitter is powered on.)



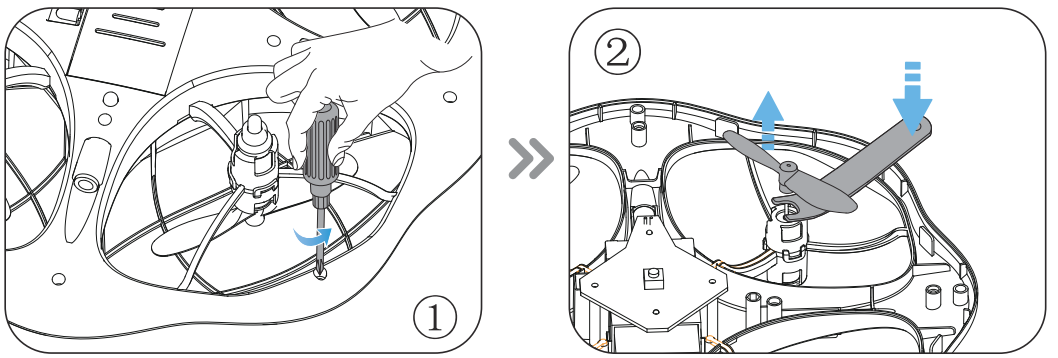
8.0 INSTALLATION

8.1 Propeller



Installation: *See illustration above, connect each propeller to its corresponding motor shaft, either position "A/B". Install the propeller to the motor shaft and press into place.*

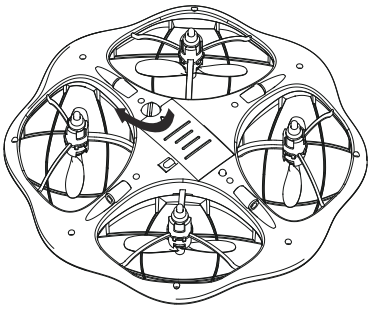
⚠ Pay attention to the "A" or "B" printed on each propeller. The drone will not fly unless the correct propeller is installed on the correct motor shaft.



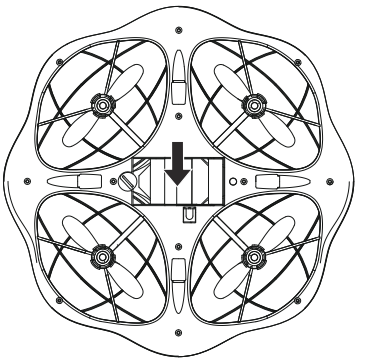
Removal: *First turn the bottom of the drone up and unscrew the bottom screws. Then insert the propeller spanner between the propeller and the motor. Be sure to hold the motor while detaching the propeller.*

8.2 Drone Battery

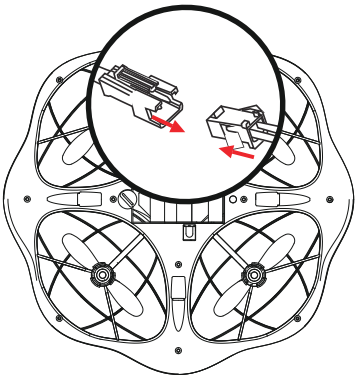
Installation:



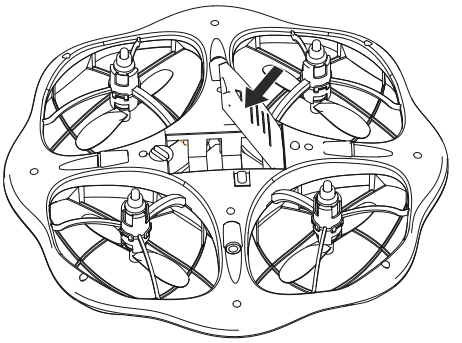
1. Turn the battery cover knob to open the battery cover.



2. Open the battery cover and install the drone battery.



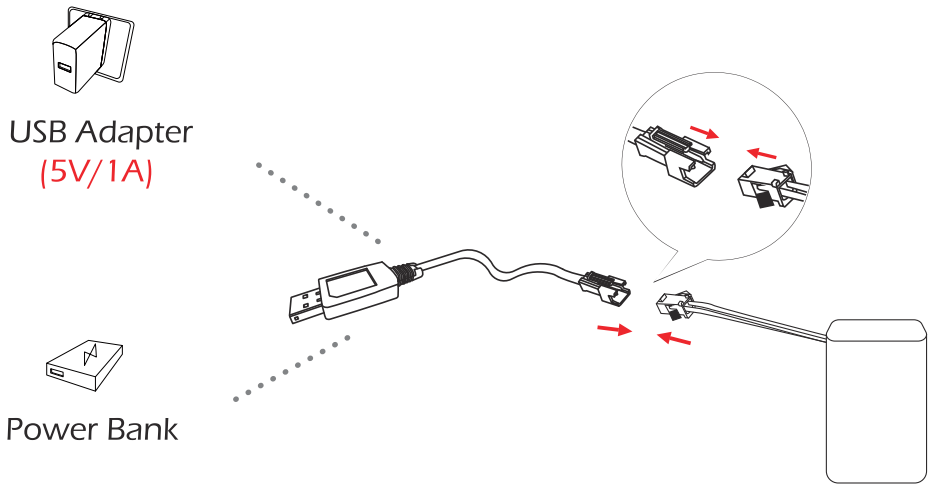
3. Connect the battery cable to the drone battery socket.



4. Put back the battery cover and turn the knob to lock the battery cover.

⚠ The battery should be installed firmly. Otherwise, the flight safety of your drone may be affected. The drone may crash due to a power-cut during the flight.

9.0 CHARGING



① Connect the battery with the USB Charging Cable.

② Plug the USB Charging Cable into a USB charging port on power bank or USB adapter (5V/1A).

③ Charging time: about 60 minutes.

④ a. When the battery is charging, the charging indicator light is Red.

b. When the battery is fully charged, the charging indicator light will turn off.

* Low Battery Signal: The indicator lights on the drone will flash continuously during the flight.

· Before charging, please read the instruction of the "Use of Battery" section of the "Safety Guidelines" carefully!

· Please use the original charging cable to charge the drone battery and transmitter.

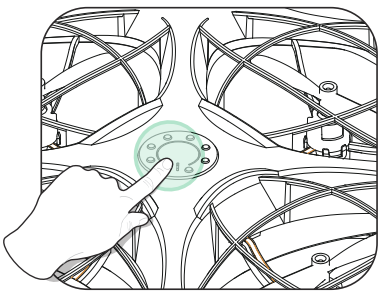
· DO NOT charge the drone battery immediately after a flight as the temperature of the battery may be too high. Please wait until it cools down to room temperature before charging again.

10.0 OPERATION GUIDE

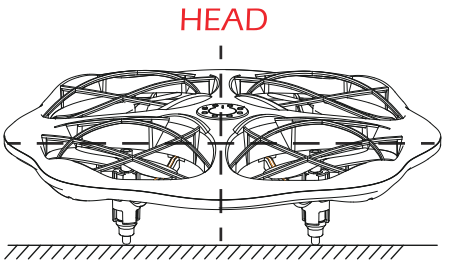
- All of the following operations on this manual uses MODE 2.
- You must keep your drone in visual line of sight all the time. If you can't see it, you can't control it.

10.1 Pairing

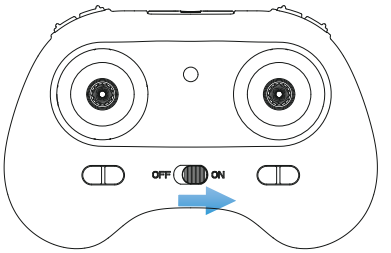
① Long press the Power Switch button to turn on the drone.



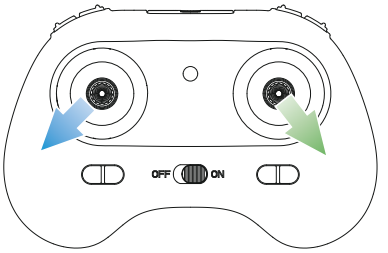
② Place the drone on a flat and level surface with the head forward and the tail facing towards the pilot.



③ Turn on the transmitter and you will hear a “Di” sound. If the drone pairing is successful, the blue indicator light on the drone and the indicator light on the transmitter will turn constant.



10.2 Calibrate the Gyro



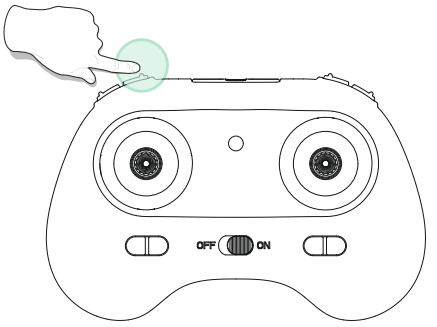
Make sure to place the drone on a level surface before calibrating the gyro. Simultaneously push the left joystick and the right joystick to the outer, lower corners to calibrate the gyro. The indicator lights on the drone will blink, and then turn solid, which indicates that the calibration is completed.

To ensure a stable flight, we suggest that the pilot calibrates the gyro every time after pairing the drone and after a crash.

10.3 Takeoff

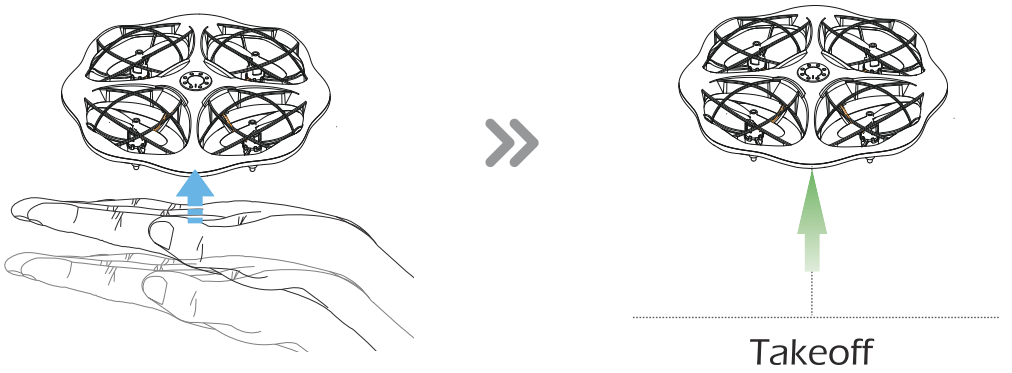
There are two methods to take off the drone.

Method 1:



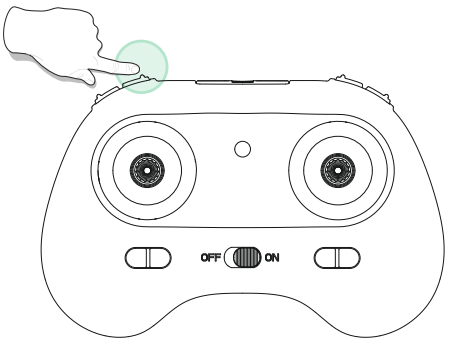
After calibration, short press the ( ) button, the drone will automatically take off and hover at 5 ft altitude. Now you can control the drone by using the joysticks.

Method 2:



Pick up the drone and lay it flat on your palm. Gently toss the drone into the air, and it will hover in place.

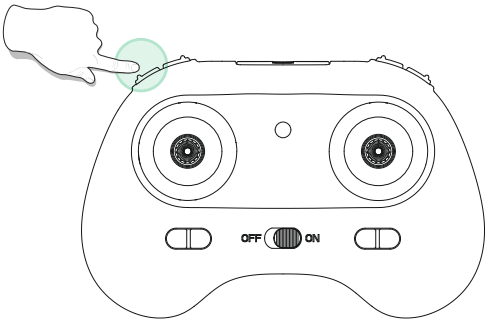
10.4 Landing



During the flight, short press the ( ) button, the drone will land on the ground automatically.

11.0 FUNCTIONS DETAILS

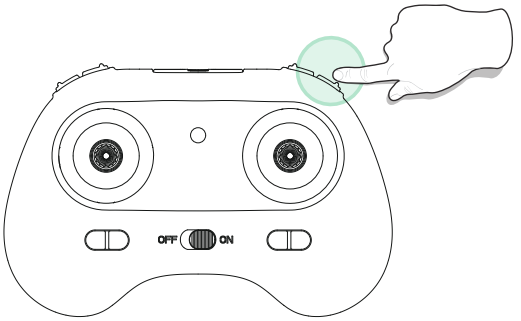
11.1 Speed Switch

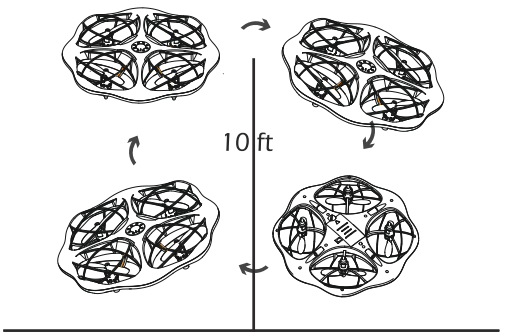


This drone offers three speed modes: Low, Middle and High. By default, it's set to Low speed.

To toggle between the modes, give the (Speed) button a short press. The transmitter beeps once to indicate Low Speed, beeps twice to indicate Medium Speed and beeps three times to indicate High Speed. (The low speed is 3.3 ft/s. The medium speed is 4.9 ft/s. The high speed is 9.8 ft/s.)

11.2 360° Flip

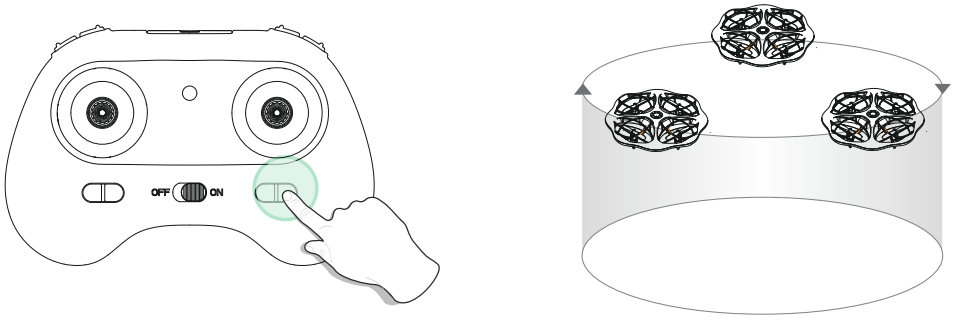




After you get familiar with all the functions of the drone, you can try this amazing flip mode. When the drone is at least 10 ft from the ground, press down on the (360°) button, then push the right joystick in any direction. The drone will perform a flip toward that direction.

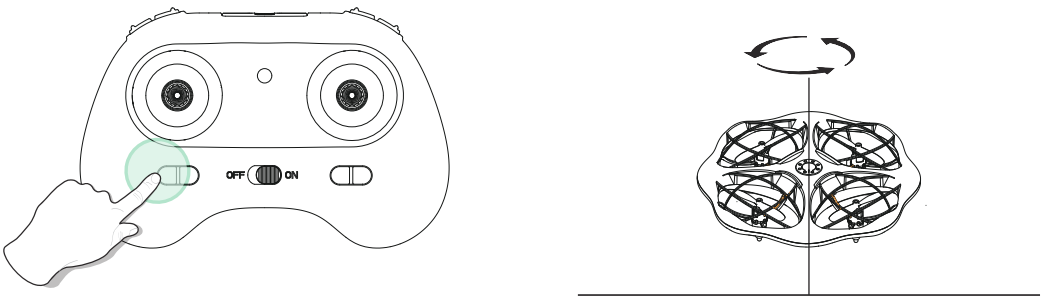
360°Flip functions better when the battery is fully charged.

11.3 Circle Fly



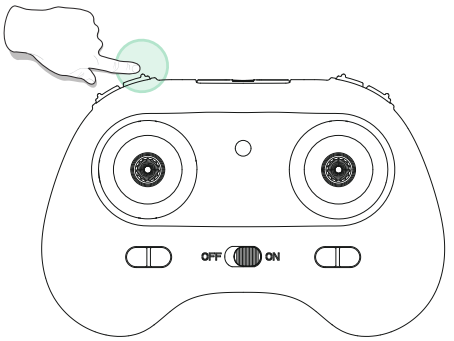
Press and hold the (▼) button for about 3 seconds, the drone will enter the Circle Fly mode. Exit the Circle Fly mode by long pressing the same button again or pushing the right joystick in any dircetion.

11.4 High Speed Rotation



Press and hold the (◀) button for about 3 seconds, the drone will enter the High Speed Rotation mode. Exit the High Speed Rotation mode by long pressing the same button again or pushing the right joystick in any direction.

11.5 Emergency Stop

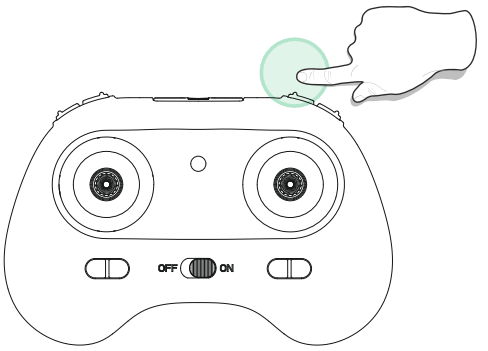


Long press the ( ) button on the top left of the transmitter and the motor will stop immediately. Please note that if the drone falls a long distance or hits any object at a high speed, it may cause the drone to break.

⚠ When the Emergency Stop is triggered, the propellers will immediately stop spinning, and the drone will lose control, falling freely from its current height. This could potentially hit people or anything in surrounding, leading to injury or damage to valuable items.

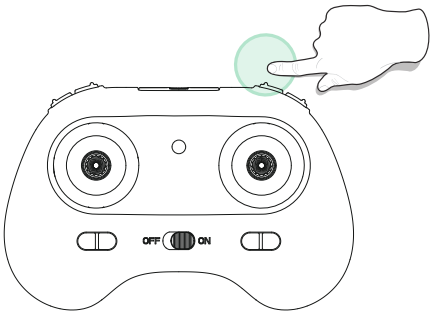
The Emergency Stop should only be triggered in emergency situations to minimize risk and reduce damage. Emergency situations include, but are not limited to: the drone losing control and colliding with people or animals or items, hair or other objects becoming entangled in the propellers, or the drone posing a threat to the safety of other aircraft, where immediate flight cessation or an immediate stop of the propellers is required.

11.6 Light Switch



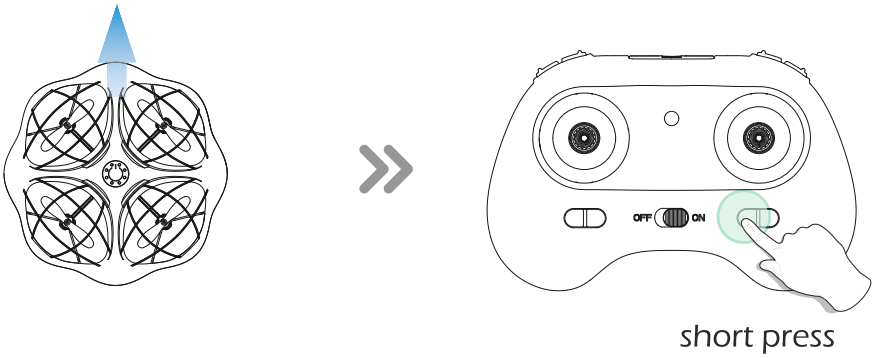
Short press the ( ) button once you can change the light state. Every time the light state changes, the transmitter will send a beep sound.

11.7 Obstacle Avoidance Function



During the flight, long press the ( ) button, when the drone encounters an obstacle, it will automatically rebound in the opposite dire- ction of the obstacle.

11.8 Trimmer



The Forward Trim

If the drone tends to drift forward:

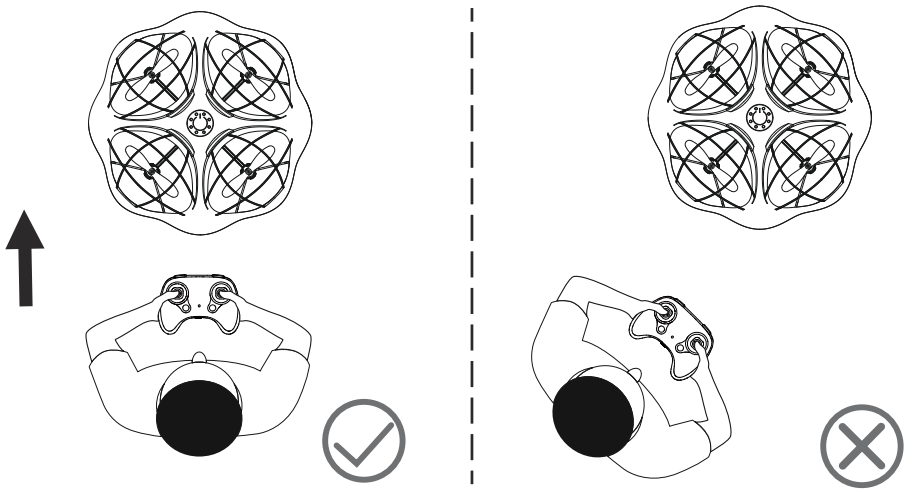
1. Press the (▼) button one time.
2. Wait 2 seconds to watch the drone's movement. If it still drifts, press the button again.
3. Depending on how the drone drifts, it may take several presses to balance the drone.
4. Repeat STEP 1 & 2 until the drone drifts forward no more.

* You can also fix the Backward/Sideward Trim using a similar method, i.e., pressing the trim button whose direction is opposite to the direction the drift.

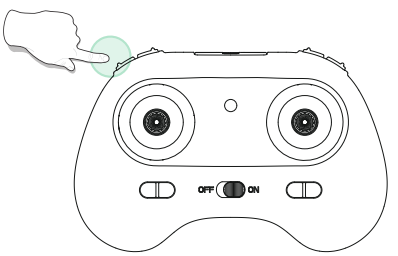
Trim adjustments are designed to counter drifts not caused by airflow.

11.9 Headless Mode

The Headless Mode is a great training tool for beginner pilots. It is also useful when the drone is too far from the pilot (which makes it difficult to tell its orientation). It keeps the drone traveling forward, backward, left, or right when you move the right joystick in those directions, regardless of which way the front of the head of the drone points to.



The pilot should stay facing the same direction that the drone's head points to when it takes off.



Activating: Press and hold the (Speed) button for about 3 seconds to activate this mode. While in Headless Mode, the body will flash a blue light.

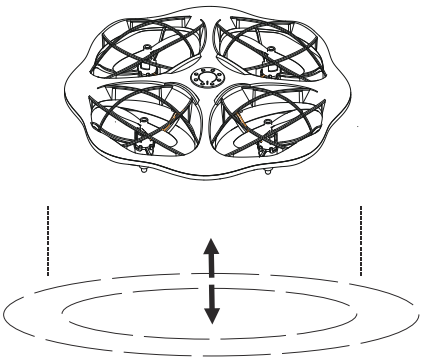
Deactivating: Press and hold the (Speed) button for about 3 seconds again. The transmitter sends out one beeps, which indicates the drone exits the Headless Mode.

* Why is the orientation of the drone important?

In normal flying mode, the control of the drone movement can sometimes be counter-intuitive for beginners. For instance, when the drone is in the air with its head pointing to your right, if you push the right joystick forward, the drone will fly to your right, instead of flying forward.

With the headless mode, the drone has a fixed "head." In Headless Mode, the drone always remembers the side its head points to during takeoff as the front side. This means that if the drone takes off with its head pointing forward, it doesn't matter how the drone is oriented in the air, when you push the right joystick forward, the drone will fly forward. Or, when its head is pointing to you, if you push the right joystick to the left, the drone will fly to your left.

11.10 Altitude-Hold Function



The drone is designed with an altitude-hold function to maintain its altitude after releasing the left joystick. (The left joystick will automatically spring back to the middle)

12.0 SPECIFICATIONS

DRONE

Model: D13

Weight: 54.5g/1.9oz

Max Flight Speed: 9.8ft/s

Max Flight Height: 98 ft/30m

Max Wind Speed Resistance: 3.3ft/s

Max Flight Time: 7minutes (per battery)

Motor Model: 716

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

Size: 155×155×40mm

DRONE BATTERY

Model： HW 752035P

Capacity: 380mAh

Voltage: 3.7V

Max Charging Voltage: 4.2V

Battery Type: Lithium-ion Polymer Battery

Charging Temperature Range: 41° to 104°F (5° to 40°C)

Charging Time: 60 minutes (depends on charging power and remaining battery power)

TRANSMITTER

Operating Frequency: 2452-2474 MHz

Flight Distance: 262 ft (outdoors and unobstructed)

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

Battery Type: 3*1.5V AAA Battery (Not included)

USB CHARGING CABLE

Input: 5V/1A

Rated Power: ≤5 W

13.0 CONTACT US

Please do not hesitate to contact us if you need further support.

usa@deerc.com (USA)

eu@deerc.com (EU)

+1(334)336-0888

14.0 GENERAL INFORMATION

FCC Notice:

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.

The Supplier's Declaration of Conformity is available at the following address:

https://www.deerc.com/Download/US/D13_FCC_sDoC.pdf

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

RF Exposure

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

IC Statement:

This device contains licence-exempt transmitter(s)/receiver(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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;

(2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

CAN NMB-003 (B)

RF Exposure

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre lasource de rayonnement et votre corps.

HOW TO RECYCLE THIS PRODUCT

This symbol on the product or its documentation indicates that it MUST not be disposed of together with household waste.

Uncontrolled waste disposal may harm the environment or human health.

Please separate your device from other types of waste for recycling it responsibly.

This will help to foster the sustainable re-use of material resources.

We suggest you contact your retailer, inquire at your local town hall or business store to find out where and how the drone can be recycled.

BATTERY WARNING:

1. Failure to follow all the instructions may result in serious injury, irreparable damage to the battery may cause a fire, smoke or explosion as well.

2. Always check the battery's condition before charging or using it.

3. Please replace the battery if the battery is dropped or has any peculiar smell, overheating, discoloration, deformation or leakage happens.

4. Never use anything other than the approved LiPo charger to charge the battery. Always use a balancing charger for LiPo cells or a LiPo cell balancer. It is recommended that you use the one provided with the product.

5. The battery temperature must never exceed 60°C(140°F) otherwise the battery could be damaged or ignited.

6. Never charge the battery on a flammable surface, near flammable products or inside a vehicle (preferably place the battery on a non-flammable and non-conductive surface).

7. Never leave the battery unattended during the charging process. Never disassemble or modify the housing's wiring, or puncture the cells. Always ensure that the charger output voltage corresponds to the voltage of the battery. DO NOT short circuit the batteries.

8. Never expose the Li-Po battery to moisture or direct sunlight, or store it in a place where temperatures could exceed 60°C(car in the sun, for example).

9. Always keep it out of reach of children.

10. Improper battery use may result in a fire, explosion or other hazards.

11. Non-rechargeable batteries are not allowed to be recharged. Rechargeable batteries should be charged under adults' supervision.

12. DO NOT mix different types of batteries including the new and used ones.

13. Batteries MUST be inserted with the correct polarity.

14. The supply terminals MUST not to be short-circuited. Regular examination of transformer or battery charger for any damage to their cords, plugs, enclosures and other parts MUST be done. If there is damage, they MUST not be used until the damage has been repaired.

15. The packaging has to be kept since it contains important information.

16. This toy should only be connected to the equipment with symbol Class II. 

EU RF Power(EIRP): <10 dBm (2452MHz ~ 2474 MHz)

Caution

1. The max operating of the EUT is 40°C, and shouldn't be lower than 0°C.

2. The device complies with RF specifications when the device used at 0mm from your body.

3. Declaration of Conformity.

We, Xiamen Huoshiquan Import & Export CO.,LTD hereby, declare that the UAS D13 is of class C0, and in compliance with the RED Directive 2014/53/EU, the RoHS Directive 2011/65/EU, Toy Directive 2009/48/EC and UAS Delegated Regulation 2019/945/EU amended by Delegated Regulation 2020/1058/EU.

The full EU declaration of conformity is accessible at the following website:

http://www.deerc.com/Download/CE/D13_EU_DOC.pdf

This product can be used among EU member states.

MANUFACTURER INFORMATION

Manufactured by
Xiamen Huoshiquan Import & Export CO.,LTD.
Address: Unit 1, Room 501, Hongxiang Building, No.258 Hubin Nan Road, Siming District, Xiamen, China
+1(334)336-0888

MTOM Statement

D13 is a quadrotor drone. The MTOM of D13 is 54.5g, including the propellers, the Flight Battery, which is compliant with C0 requirements. Users must follow the instructions below to comply with the MTOM C0 requirements. Otherwise, the drone cannot be used as a C0 aircraft:

1. DO NOT add any payload to the aircraft except the items listed in the List of Items including qualified accessories section.
2. DO NOT use any non-qualified replacement parts, such as flight batteries or propellers, etc.
3. DO NOT retrofit the aircraft.

List of Items including qualified accessories

1. D13 Propellers (Model: D13-FY, 0.2 g each propeller, 2000RPM)
2. D13 Flight Battery (approx. 11.2 g)

List of Spare and Replacement Parts

1. D13 Propellers (0.2 g each propeller)
2. D13 Flight Battery (approx. 11.2 g)

List of Safe Guards

Below is the list of the mechanical safeguards and operation safeguards for D13.

1. Emergency Stop function can be performed to stop the motors in case of an emergency. Refer to the Emergency Stop section for details.

2. Prevent the drone from flying in restricted airspace. Refer to the Flight Environment Requirements section for details.
3. If the drone disconnects from the transmitter, the indicator light on the drone will continuously flash. The drone will slowly descend at its current position until it lands. During the landing process, the drone cannot be manually controlled. The drone descends slowly during the process, minimizing the risk of significant impact that could damage surrounding people or objects. However, as the propellers continue to spin during descent, there may still be a risk of minor damage. The pilot must keep the drone within remote control range specified in the manual to avoid disconnection, and always keep the drone within line of sight in case of disconnection. When the drone disconnects from the transmitter, the pilot should warn people around the drone to take actions to prevent injury and damage (leaving the area, moving things away, etc.). The drone may be broken and the propellers, motors and drone body may be damaged.

Similar products produced by the same manufacturer are electrically identical. Distinguish them based on product model and appearance color.

MADE IN CHINA(CN)