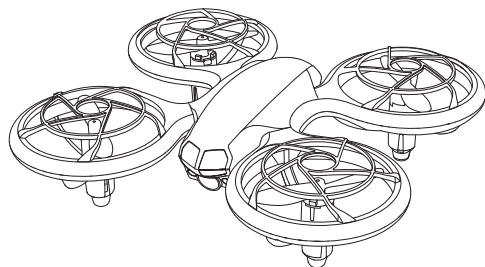




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# Instructions For Use

V1.0



D23

✉ [usa@deerc.com](mailto:usa@deerc.com) (USA)    [eu@deerc.com](mailto:eu@deerc.com) (EU)

# Contents

1.0 Disclaimer & Warning .....	1
2.0 Safety Guidelines .....	1
3.0 Maintenance .....	5
4.0 Package Contents .....	6
5.0 Drone Details .....	7
6.0 Transmitter Functions .....	8
7.0 Joystick Mode .....	9
8.0 Installation	
Propeller .....	10
Drone Battery .....	11
Phone Holder .....	12
9.0 Charging .....	13
10.0 Operation Guide	
Download App .....	14
Connect to Wi-Fi .....	14
Pairing .....	15
Calibrate the Gyro .....	16
One Key Takeoff/Landing .....	16
11.0 Functions Details	
Speed Switch .....	17
Emergency Stop .....	17
Trimmer .....	18
360 ° Flip .....	19
Circle Fly .....	20
Light Switch .....	20
Take Photo/Record Video .....	21
Headless Mode .....	22
Rotate to Fly Back .....	23
Altitude-Hold Function .....	24
12.0 Specification .....	25
13.0 Contact Us .....	26
14.0 General Information .....	27

## **1.0 DISCLAIMER & WARNING**

1. Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. This product is not recommended for people under the age of 14. 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 damage caused while using this product, and any consequence. You agree to only use this product for its 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.

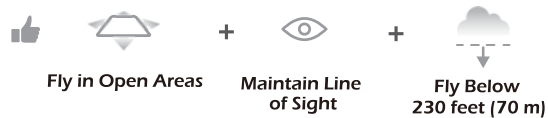
## **2.0 SAFETY GUIDELINES**

### **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



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



- ⑦ **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.

	<p><b>Li-Po Battery Disposal &amp; Recycling</b></p>	
<p>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.</p>		

### **3.0 MAINTENANCE**

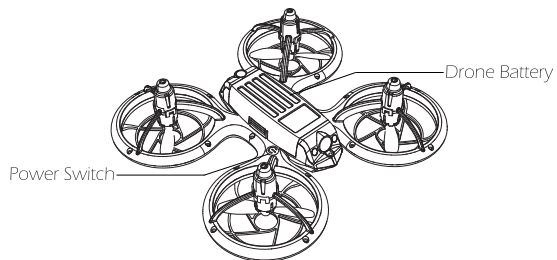
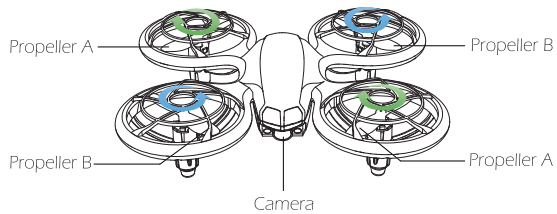
- ① Clean the drone after each use with a clean, soft cloth.
- ② Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone or batteries.
- ③ This device is not waterproof and must not be submerged or subjected to water under any circumstance. Failure to keep the device completely dry will result in the failure and permanent damage to the unit. 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 use or charging until the damaged parts is replaced.

## 4.0 PACKAGE CONTENTS

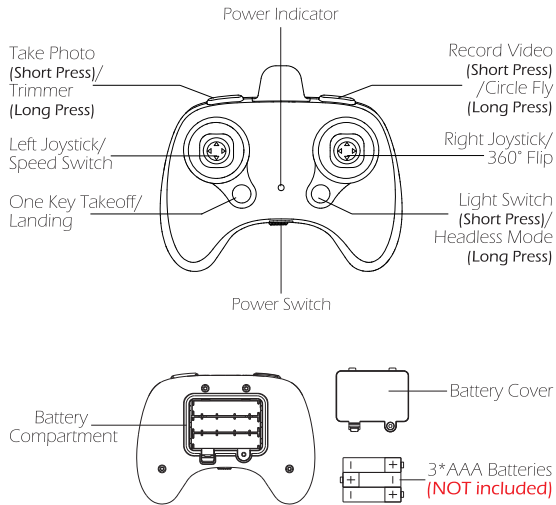
 × 1	 × 1	 × 1
Drone	Transmitter	Drone Battery
 × 1	 × 1	 × 1
USB Charging Cable	Spare Propellers	Screwdriver
 × 1	 × 1	 × 1
Phone Holder	Propeller Spanner	Instructions For Use



## 5.0 DRONE DETAILS



## 6.0 TRANSMITTER FUNCTIONS

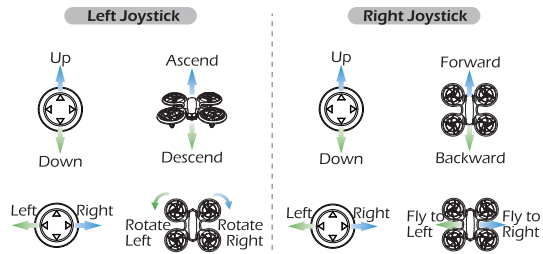


Open the battery cover on the back of the transmitter, insert the three AAA batteries (**Not included**) into the battery compartment, and close the battery cover to complete the installation.

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

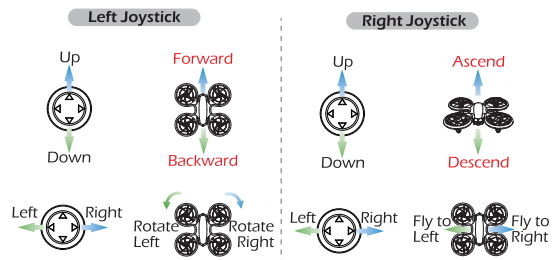
## 7.0 JOYSTICK MODE

### 7.1 MODE 2 (Default Setting)



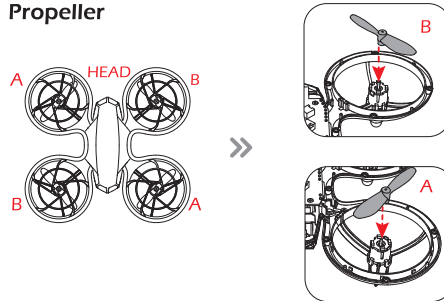
### 7.2 MODE 1

To enter MODE 1, turn on the transmitter while holding the “Take Photo” button. **(Please do not release the “Take Photo” button until the transmitter is powered on.)**



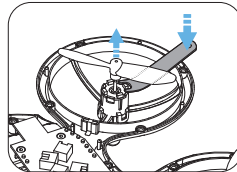
## 8.0 INSTALLATION

### 8.1 Propeller



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

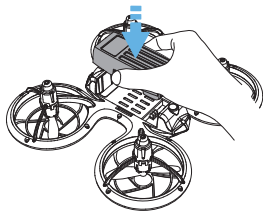
**Attention:** Pay attention to the "A" or "B" printed on each propeller. The drone will not fly unless the correct propeller is installed on the correct motor shaft.



**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.

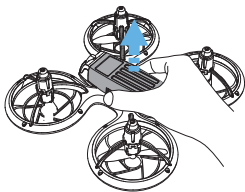
## 8.2 Drone Battery

### Installation:



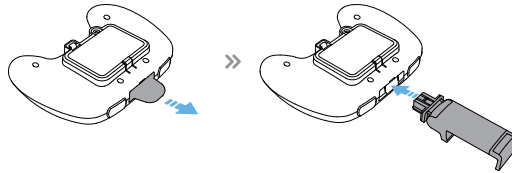
As shown in the figure above, press and hold the sides of the battery, then install the battery to the battery compartment. When you hear a click, the battery is installed.

### Removal:

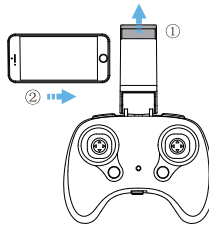


As shown in the figure above, press and hold the sides of the battery and lift it up to remove the battery.

### 8.3 Phone Holder

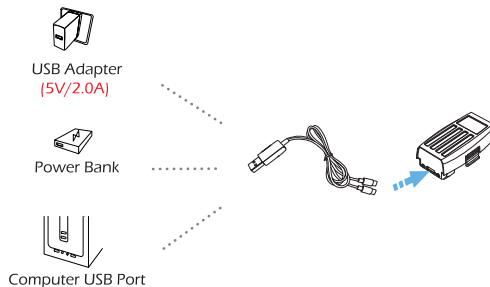


- ① Remove the dust cover.
- ② Insert the phone holder into a slot on the top of the transmitter.



- ③ Open the phone holder and insert the phone.

## 9.0 CHARGING



- ① Connect the battery with the USB Charging Cable.
- ② Plug the USB Charging Cable into a USB charging port on the computer, power bank or USB adapter (5V/2.0A).
- ③ Charging time: about 40~60 minutes.
- ④ a. While the battery is charging, the charging indicator light is Red.  
b. When the battery is fully charged, the charging indicator light will turn Green.



Before charging, please read the instruction of the “Use of Battery” section of the “Safety Guidelines” carefully!

## 10.0 OPERATION GUIDE

### 10.1 Download APP



iOS



Android APP on Google play

Scan the QR code, corresponding to either App Store™ or Google Play™ Store and download the **DE FPV** app for free.

Required Operating Systems: **iOS 9.0** or later/**Android 5.1** or later.

### 10.2 Connect to Wi-Fi

Connect your phone to the Wi-Fi network created by the drone. To check the drone's status on the **DE FPV** App.

- ① Open your phone's Wi-Fi settings and click Wi-Fi to search for the Wi-Fi of the drone.
- ② Select the Wi-Fi network: **DeercFPV-\*\*\*\*\***.
- ③ Wait for couple of seconds for your phone to connect to the drone's Wi-Fi.
- ④ Open the **DE FPV** application.

> The connection between your phone and the drone is established automatically.



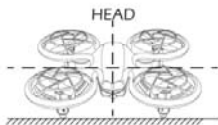
All of the following operations on this manual uses MODE 2.

### 10.3 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 As shown in the picture, turn on the transmitter.



- ④ Push the throttle joystick up then down to pair the drone with the transmitter. The indicator lights on the drone will turn solid if the drone is paired successfully.



## 10.4 Calibrate the Gyro



As shown in the figure above, push the left and right joystick simultaneously to the lower left corner to calibrate the gyro. The lights on the drone will blink quickly and turn solid, then 2 beeps will be heard from the transmitter that indicates the calibration is completed.

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

## 10.5 One Key Takeoff/Landing



①**Takeoff:** After calibration, short press the One Key Takeoff/landing button, the drone will automatically take off and hover at 5 feet altitude. At this time, you can control this drone by using the joysticks.

②**Landing:** Short press the One Key Takeoff/Landing button again, the drone will land on the ground by itself.

## 11.0 FUNCTIONS DETAILS

### 11.1 Speed Switch



This drone comes with 3 speed modes (Low/Medium/High). Press in the Left Joystick to switch the speed. Increase or decrease one speed at a time. A "Di" tone indicates Low Speed, a "DiDi" tone indicates Medium Speed and a "DiDiDi" tone indicates High Speed.

*(The Low Speed is the default speed mode.)*

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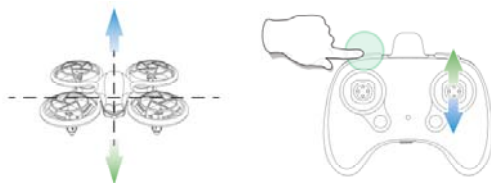
### 11.2 Emergency Stop

**⚠** The Emergency Stop function should only be used in case of emergency during the flight to avoid any damage or injury.

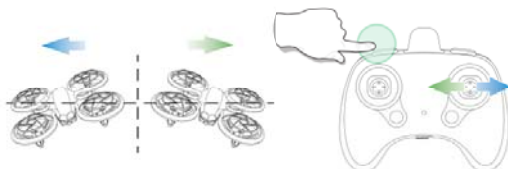


Short press the upper left and upper right button of the transmitter at the same time, the motors will stop immediately. Be aware that you risk breakage of the drone if it falls a large distance or hits anything at a high rate of speed.

### 11.3 Trimmer

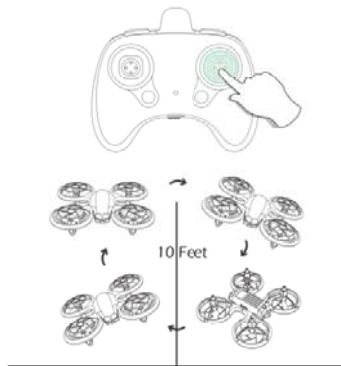


**F/B Sideward Fly Trim:** If the drone tends to drift forward, hold down the Take Photo button and do not release it while pushing the direction joystick down to balance the drone. If the drone tends to drift backwards, hold down the Take Photo button and do not release it while pushing the direction joystick up to balance the drone.



**L/R Sideward Fly Trim:** If the drone tends to drift left, hold down the Take Photo button and do not release it while pushing the direction joystick right to balance the drone. If the drone tends to drift right, hold down the Take Photo button and do not release it while pushing the direction joystick left to balance the drone.

## 11.4 360° Flip



When you get familiar with all the functions of the drone, you can try this amazing flip mode. When you fly the drone at least 10 feet, press in the Right Joystick to enter the 360° Flip, then push the right joystick Forward/Backward or Left/Right, and the drone will do a flip towards the corresponding direction.

**Tip:** This function will perform better when the battery is fully charged.

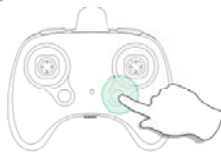
### 11.5 Circle Fly



During the flight, long press the Circle Fly button, the transmitter will make a long "Di" sound, which indicates that the drone enter the Circle Fly. Exit the Circle Fly mode by long pressing the same button again.

---

### 11.6 Light Switch



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

**The first state:** Diagonal lights flash alternately.

**The second state:** The lights flashing clockwise one after another.

**The third state:** The front blue lights will turn off, the rear green lights will turn on. (You can choose to activate this state to perfect photos or videos.)

**The fourth state:** All lights will turn off.

**The fifth state:** All lights will turn on.

## 11.7 Take Photo/Record Video



**Take Photo:** Short press the Take Photo button on the upper left of the transmitter to take pictures. One beep can be heard from the transmitter that indicate the camera has successfully taken a picture.



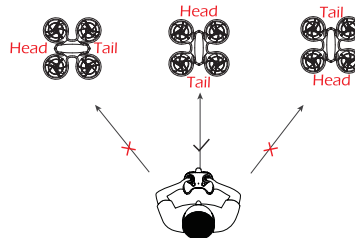
**Record Video:** Short press the Record Video button on the upper right of the transmitter, one beep from the transmitter will be heard. This tells you that the camera has started recording video. You can exit the recording by short pressing the Record Video button again.



**Do not take photos during the recording, which will interrupt the recording.**

## 11.8 Headless Mode

1. After pairing/calibration, long press the Headless Mode button on the transmitter, and the transmitter will send out beeps continuously which indicates the drone is in Headless Mode.
2. Long press the Headless Mode button again, and you will hear 2 beeps which indicates the drone exits the Headless Mode.



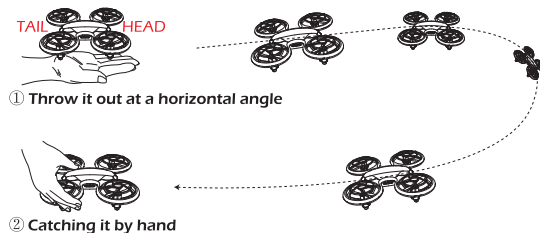
Please make the pilot stays facing the same direction that the drone head faces at take-off.

While in Headless Mode, pushing the direction joystick forward will make it fly in the direction that the head of the drone faces when it takes off. To make sure the pilot can tell drone's direction, during the flight, we recommend that pilot stays facing the same direction that the drone head faces at take-off. By doing so it is ensured that when the pilot pushes the direction joystick forward/backward, the drone will fly forward/backward toward him/her. If the pilot moves the direction joystick left/right, the drone will move left/right relative to him/her.



## 11.9 Rotate to Fly Back

The drone is designed with Rotate to Fly Back. Throwing it out at a horizontal angle, and it will take off and return automatically.



① Throw it out at a horizontal angle

② Catching it by hand

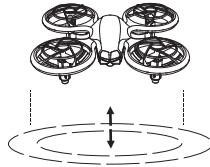
Follow the steps as below to start the Rotate to Fly Back:

- 1) Turn on the drone after, short press the Power Switch twice at a horizontal angle. The indicator lights of the drone blink indicating that the drone can start the Rotate to Fly Back.
- 2) Throw it out at a horizontal angle with the head forward and the tail towards the pilot, the drone will take off automatically.
- 3) As your drone flies back, catching the drone with your hand, then it will stop immediately.
- 4) Short press the Power Switch twice, the indicator lights will turn solid indicating that the drone exit the Rotate to Fly Back.

### Attention:

- When throwing out the drone, please do not push too hard to avoid the drone fail to do so.
- Please make sure that the head of the drone is kept at a horizontal angle when entering the Rotate to Fly Back.
- When the battery is low, the drone cannot enter the Rotate to Fly Back.

## 11.10 Altitude-Hold Function



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

## 12.0 SPECIFICATIONS

### DRONE

Model: D23

Weight: 53g/1.87oz

Max Flight Time: 7 minutes (per battery)

Motor Model: 716

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

Size: 124 x 133 x 36 mm

### FLIGHT BATTERY

Capacity: 550mAh

Voltage: 3.7V

Battery Type: Li-Po Battery

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

Charging Time: 40~60 minutes (depends on charging power and remaining battery power)

### TRANSMITTER

Operating Frequency: 2.4 GHz

Flight Distance: 50~80 m/164~262 feet

(outdoors and unobstructed)

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

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

**CAMERA**

Operating Frequency: 2.4GHz  
Photo/Video Resolution: 1280×720P  
Transmission Distance: 60 m/197 feet(outdoor and  
unobstructed)  
Live View Quality:25fps  
Lens Angle: 85°  
Photo Formats: JPEG  
Video Formats: AVI/MP4  
Operating Temperature Range: 32° to 104°F

**USB CHARGING CABLE**

Voltage: 5 V  
Rated Power: ≤10 W

**13.0 CONTACT US**

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

✉ [usa@deerc.com](mailto:usa@deerc.com) (USA)  
[eu@deerc.com](mailto:eu@deerc.com) (EU)



For online support, please scan  
this code with Live Chat

## 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.
- (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 set to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy, if not installed and used in accordance with the instructions, it 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 not be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Separation more distance between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: 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 Notice:

This device complies with Canada Industry 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.

#### CAN ICES-3 (B)

##### Avis d'Industrie Canada

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 le brouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement. Le mauvais fonctionnement de l'appareil. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAN NMB-3 (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 la source 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. 

**Caution**

- 1.The max operating of the EUT is 45°C, and shouldn't be lower than -10°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 compliance of the essential requirements with  
the  
Directive 2014/53/EU, the RoHS Directive 2011/65/EU and Safety  
Directive 2009/48/EC have been fully fulfilled on our product with  
indication below:

Product Name: **Quadcopter**

Model/Mark : D23/Deerc

The Statement of compliance is available at the following address:  
[http://www.holystone.com/docs/D23\\_EU\\_DOC.pdf](http://www.holystone.com/docs/D23_EU_DOC.pdf)

This product can be used among EU member states.

#### **MANUFACTURER INFORMATION**

Manufactured by

Xiamen Huoshiquan Import & Export CO.,LTD.

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**Made in China**