



DEERC

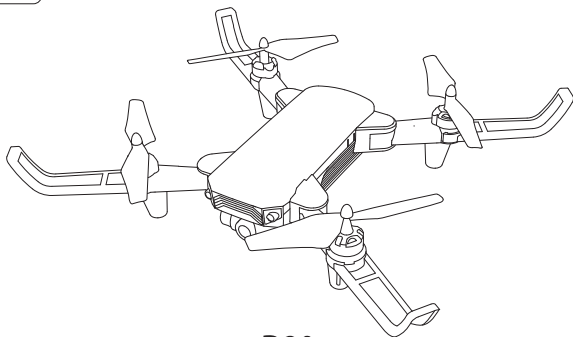
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Instructions For Use

日本語マニュアル

Gebrauchsanweisung

V2.0



D20



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● English 01-29 ●

● 日本語 30-54 ●

● Deutsch 55-81 ●

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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 damaged caused while using this product, and its consequences . You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable polices and guidelines Deerc may make available.

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 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 setup this drone carefully and correctly to ensure safe, accident-free operation.

② Please be sure that the batteries of the drone and transmitter are clean, undamaged and, fully charged.

③ Please be sure that all the propellers are undamaged and are installed in the correct orientation.

④ Please do a thorough check of the product before each use. Inspect the integrity of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the indicator, etc. If after doing a complete check any issues are found, please refrain from using the product until the issue has been resolved.

2.2 Flight Environment



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Fly in Open Areas

Maintain Line
of Sight

Fly Below
131 feet (40 m)



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport 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 the drone in adverse weather conditions such as rain, snow, fog and strong wind.

2.3 Operations Requirements

- ① Do not follow moving vehicles.
- ② During the flight, only turn off the motor in case of an emergency.
- ③ Please flight the drone back to you as soon as possible when the battery is running low.
- ④ This product should not be used while drinking alcohol, if you are feeling fatigued, taking medicine, or feeling any physical discomfort.
- ⑤ Beware of the noise volume the drone produces. Keep your distance to avoid ear damage.



Stay away from the rotating propellers and motors.



No Fly Zone

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 incorrectly, and do not crush or squeeze the batteries as this could carry the risk of an explosion.
- ③ Do not mix new and old batteries as this can lead to a poor performance of the product.
- ④ Dispose used batteries carefully, do not litter.
- ⑤ Please keep dead batteries away from heat and fire.
- ⑥ If the device is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.

- ⑦ If the device is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.
- ⑧ It is recommended to only use the USB charging cable that comes with the drone to charge the battery.
- ⑨ Don't connect the battery directly to wall outlets or car cigarette-lighter sockets.
- ⑩ Don't attempt to disassemble or modify the battery in any way.
- ⑪ Don't use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
- ⑫ Don't pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it!
- ⑬ Always charge the batteries in a fireproof container and away from combustible materials. Don't charge on surfaces that can catch fire. This includes: wood, cloth, carpet, or in the application's device.
- ⑭ Don't immerse the battery in water or allow it to get wet.
- ⑮ Don't solder battery terminal directly.
- ⑯ Keep battery out of reach of children or pets.
- ⑰ Don't short-circuit the battery by connecting wires or 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.



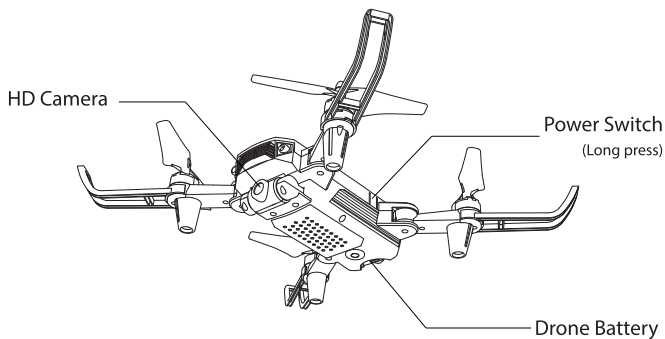
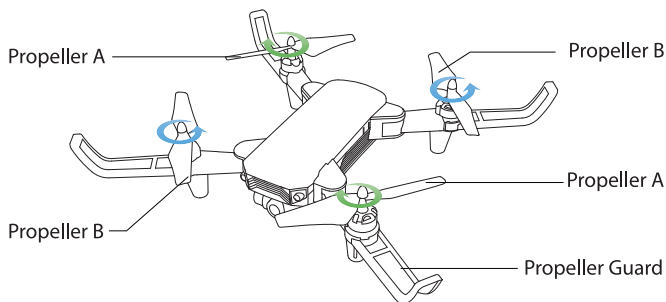
3.0 MAINTENANCE

1. Clean the product after each use with a clean, soft cloth.
2. Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone.
3. This device is not waterproof and must not be submerged in water under any circumstance. Failure to maintain the device completely dry will result in the failure of the unit.
4. Check the charging plug and other accessories for signs of damage frequently. If any part of the device is damaged, refrain from flying until maintenance can be carried out.

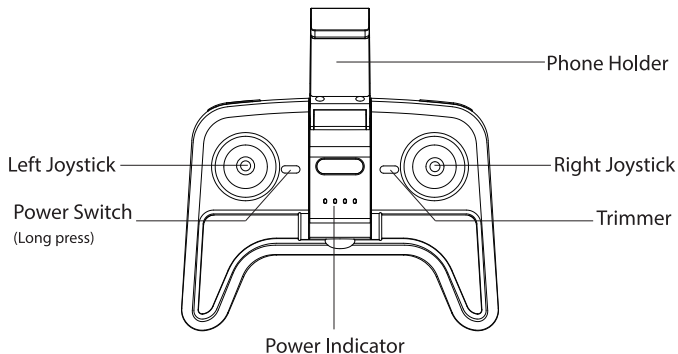
4.0 PACKAGE CONTENTS

 x1	 x1	 x1
Drone	Transmitter	Drone Battery
 x1	 x4	 x1
USB Charging Cable	Propeller Guard	Spare Propellers
 x1	 x1	
Screwdriver	Instructions For Use	

5.0 DRONE'S DETAILS



6.0 TRANSMITTER DETAILS

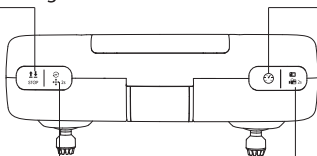


One Key take off/Landing
& Emergency stop
(Long press)

Speed Switch

360° Flip &
Headless Mode
(Long press)

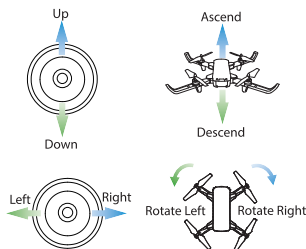
Take Photo &
Record video
(Long press)



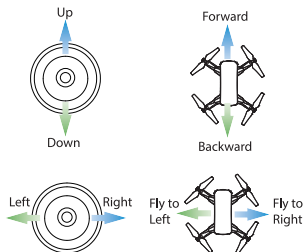
7.0 JOYSTICK MODE

► 7.1 MODE 2 (Default Setting)

Left Joystick



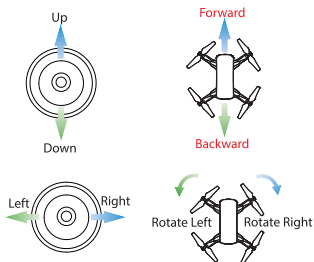
Right Joystick



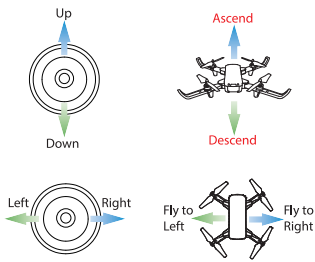
► 7.2 MODE 1

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

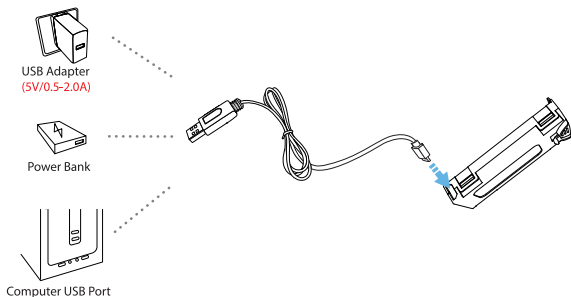
Left Joystick



Right Joystick



8.0 CHARGING THE BATTERY

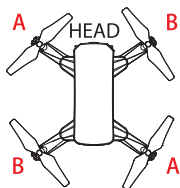


- 1) When the drone battery runs low, the indicator lights on the drone will blink continuously. About one minute the drone will automatically land on low battery power.
- 2) Remove the battery and connect the USB charging cable to the battery charging interface.
- 3) Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V / 0.5 to 2.0A).
- 4) The red indicator light on the USB charging cable will turn on when the battery is charging, and will turn off when the battery is fully charged.
- 5) Charging time: about 80 minutes.

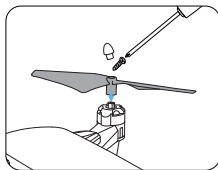
⚠ Before charging, please check the contents of the “ Use of Battery” section of the “ Safety Guidelines” carefully!

9.0 INSTALLATION

► 9.1 Propeller



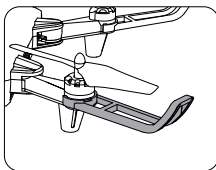
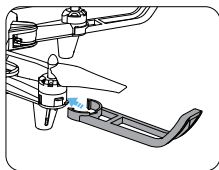
Pic 1



Pic 2

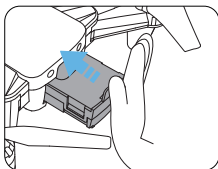
- ① Install the propeller on the motor shaft according to the "A / B" corresponding position. (Pic1)
- ② Use a screwdriver to twist and tighten the screw by pressing the clockwise direction. (Pic2)

► 9.2 Propeller Guard

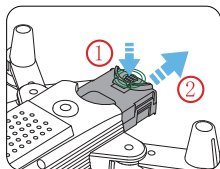


As shown in the picture, install the propeller guard to the motor base. Make sure that the propeller guard are clamped to the motor base to avoid the unnecessary loss and damage during flight.

► 9.3 Drone's Battery



Pic 3

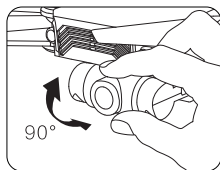


Pic 4

Installation: Push the battery correctly into the drone battery compartment. Make sure the battery is in place to ensure that the battery is jammed in the battery compartment. (Pic3)

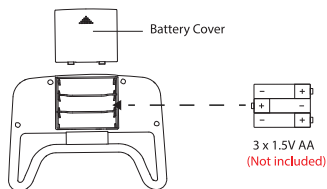
Removal: Press the lock on the bottom of the battery and pull it back to remove the battery from the fuselage. (Pic4)

► 9.4 Camera Angle Adjustment



By rotating the drone's camera manually, the shooting angle of camera will be adjusted. Please adjust the angle according to the using situation. (The camera has an 90° tilt range.)

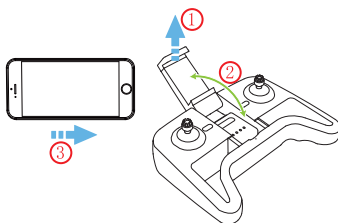
► 9.5 Transmitter's Battery



As shown above, insert the battery into the transmitter. Please pay attention to the positive and negative polarity of the battery to ensure the correct installation of the battery.

When the transmitter battery runs low, the power indicator of the transmitter will blink continuously.

► 9.6 Install the Phone Holder



As shown above, open the Phone Holder and put the phone. Then you can use the FPV real-time transmission function.

10.0 OPERATION GUIDE

► 10.1 Download APP



iOS



Android APP on Google play

Scan the QR code, connect to the App Store™ or Google™ Play and download the "DE FPV" application for free.

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

► 10.2 Connect Wi-Fi Networks

Connect your smart phone to the Wi-Fi of the Drone and check the drone's status on the "DE FPV" App.

- ① Your smart phone will launch a search of the available Wi-Fi networks;
- ② Select the Wi-Fi network: **DeercFPV-*******.
- ③ Wait your smart phone for several seconds to connect the Wi-Fi network of the drone.

This connection is generally represented by the Wi-Fi logo appearing on your smart phone's screen.

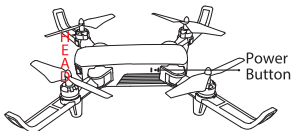
- ④ Enter the "DE FPV" application.

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

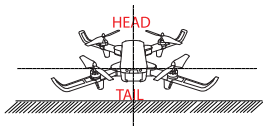
All of the following operations on this manual takes MODE 2 for example.

► 10.3 Pairing

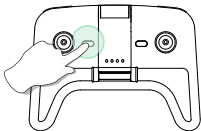
① Press and hold the Power Button for 3 seconds to turn on the drone and the indicator lights on the drone begins to flash.



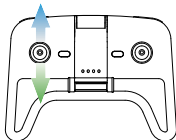
② Place the drone on a flat and level surface with the head forward and the tail towards the pilot.



③ Long press the Power Button (ON) on the transmitter to turn it on and you will hear "Di", then the indicator light on the transmitter begins to flash.



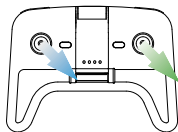
④ Push the left joystick up then down to pair the drone with the transmitter. The indicator lights on the drone and transmitter will turn solid if the drone is paired successfully.



► 10.4 Calibrating the Gyro

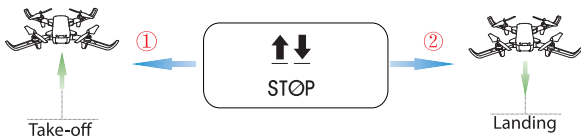
Push both joysticks down to the bottom right to calibrate the gyro.


The indicator lights on the drone will blink quickly and turn solid, indicating calibration is completed.




Tips: 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



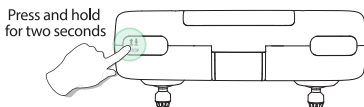
① Short press the One Key Takeoff/ Landing button (), the drone will automatically take off and hover at 5 feet altitude.


② When the drone is flying, short press the One Key Takeoff/ Landing button (), the drone will automatically land on the ground.

11.0 FUNCTIONS DETAILS

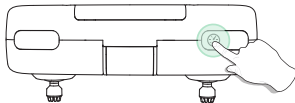
► 11.1 Emergency Stop


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



Press and hold the Emergency Stop button () of the transmitter for 2 seconds, the motors will stop immediately.

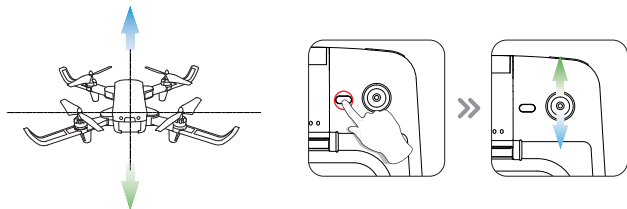
► 11.2 Speed Switch



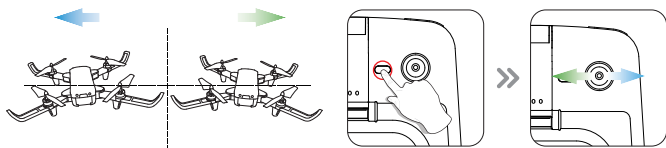
This drone comes with 3 speed modes (Low/ Medium/ High). Short press the Speed Switch button () on the transmitter to switch the speed. "Di" indicates Low speed, "Di Di" indicates Medium speed and "Di Di Di" indicates High speed.

(The Low Speed is default speed mode.)

► 11.3 Trimmer Function



F/B Sideward Fly Trim: Short press the Trimmer button (**Trim**) to enter the Trimmer function. If the drone drifts forward, push the direction joystick down to balance the drone. If the drone drifts backwards, push the direction joystick up to balance the drone.

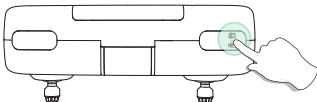


L/R Sideward Fly Trim: Short press the Trimmer button (**Trim**) to enter the Trimmer function. If the drone drifts left, push the direction joystick right to balance the drone. If the drone drifts right, push the direction joystick left to balance the drone.




- When you hear a long beep from the transmitter, it indicates that it has been adjusted to the limit.
- If you do not push the direction joystick after entering the Trimmer function, the drone will automatically exit the Trimmer function after about two seconds.


► 11.4 Take Photo / Video



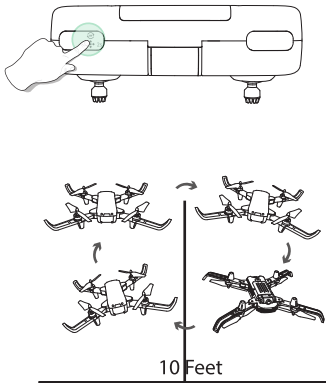
Take Photo:


Press the Photo/Video button () on the transmitter to take pictures. One beep can be heard from the transmitter, and the light flashes once indicating the camera has successfully taken a picture.

Record Video:

Press and hold the Photo/Video button () on the transmitter for 2 seconds, one long beep from the transmitter will be heard and the indicator lights will flash twice. This tells you that the camera has started recording video. You can exit the recording by long pressing the same button again.

► 11.5 360° Flip



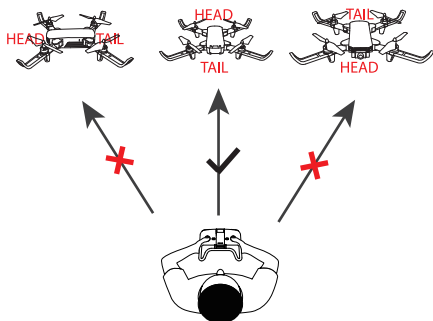
When you get familiar with all the functions of the drone, you can try this amazing flip mode. When you fly the drone at least 10 feet, short press the 360° Flip button () on the transmitter, then push the right joystick Forward/ Backward or Left/ Right, and the drone will do a flip towards the corresponding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

If you are in MODE 1, push the right joystick Left/ Right or push the left joystick Forward/ Backward, and the drone will do a flip towards the corresponding direction.

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

► 11.6 Headless Mode

1. After pairing/calibration, long press the the Headless Mode button (Ⓜ_{2s}) on the transmitter to enter the Headless Mode. The indicator lights on the drone continue to flash to indicate that it is in Headless Mode.
2. Press the Headless Mode button again, and you will hear a beep, the indicator lights on the drone will turn solid which indicates the drone exits the Headless Mode.



Please make sure the pilot to stay in the same orientation as the drone head faces when the drone is pairing.

Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone is pairing. In order to make sure the pilot can tell drone's direction, we recommend that pilots to stay in the same orientation as the drone's head faces when the drone takes off. When the pilot pushes the direction joystick forward, the drone will fly forward. If the pilot pushes the direction joystick backward, the drone will fly towards him/her. If the pilot move the right stick left/right, the drone will move left/right relative to you.

12.0 SPECIFICATIONS

- DRONE

Model: D20

Weight: 69g/ 2.4oz

Max Flight Time: 10 minutes (per battery)

Motor Model: 716

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

Size: 196*162*43 mm

- DRONE BATTERY

Capacity: 500mAh

Voltage: 3.7 V

Battery Type: Li-Po Battery

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

Charging Time: about 80 minutes (depends on charging power and remaining battery power)

- TRANSMITTER

Operating Frequency: 2.4 GHz

Max Flight Distance: 131 feet / 40m (outdoors and unobstructed)

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

Battery Type: 1.5V*3 AA Battery

- CAMERA

Lens Angle: 80 °

Video/ Photo Resolution: HD1280 x 720P

Max Transmission Distance: 98 feet / 30m (outdoors and unobstructed)

Photo Formats: JPEG

Video Formats: AVI / MP4

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

- USB CHARGING CABLE

Voltage: 5 V

Rated Power: ≤10 W

13.0 TROUBLE SHOOTING

Problems	Reasons	Solutions
The indication lights of the drone are flashing and does not respond to the transmitter.	1. Communication between the drone and transmitter is not correct. 2. Battery power is low.	1. Refer to the preparation for flight and pair again. 2. Recharge the battery.
The propellers spin but the drone is unable to take off.	1. The propellers are assembled in wrong orientation. 2. The propellers are damaged.	1. Replace the propellers according to the motors. 2. Replace the propellers
The drone shakes hard-ly in flight.	The propellers are damaged.	Replace the propellers
The drone becomes out of control after crashing.	Gyro sensor lose it's balance after crashing.	Place drone on a level surface for 5-10 seconds, and recalibrate the gyro.

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

✉ usa@deerc.com (USA)

jp@deerc.com (JP)

eu@deerc.com (EU)

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 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.

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 For Quadcopter

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.

RF Exposure For Controller

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

HOW TO RECYCLE THIS PRODUCT

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

Uncontrolled waste disposal may harm the environment or human health. Please separate your device from other types of waste to recycle it responsibly.

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

We invite you to contact your retailer or inquire at your local town hall 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 and may cause a fire, smoke or explosion.
 2. Always check the battery's condition before charging or using it.
 3. Replace the battery if it has been dropped, or in case of odour, overheating, discolouration, deformation or leakage.
 4. Never use anything other than the approval LiPo charger the battery.
- Always use a balancing charger for LiPo cells or a LiPo cell balancer. It is

recommended that you do not to use any other charger than the one provided with the product.

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

6. Never charger on a flammable surface, near flammable products or inside a vehicle(perferably place the battery in a non-flammable and nonconductive container).

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 LiPo 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 hazard.

11. Non-rechargeable batteries are not to be recharged. Rechargeable batteries are only to be charged under adult supervision.

12. Different types of batteries or new and used batteries are not to be mixed.

13. Batteries are to be inserted with the correct polarity.

14. The supply terminals are not to be short-circuited. Regular examination of transformer or battery charger for any damage to their cord, plug, enclosure and other parts and they must not be used until the damage has been repaired.

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

16. The toy is only to be connected to Class II equipment bearing the symbol.

EU RF Power(EIRP): <10 dBm (2413MHz ~ 2461 MHz)

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 form your body.

3.Declaration of Conformity

We, Xiamen Huoshiquan Import & Export CO.,LTD
hereby, declare that the essential requirements compliance 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: Remote control four axis series

Model/Mark : D20/Deerc

The Statement of compliance is available at the following address:
http://www.holystone.com/docs/D20_EU_DOC.pdf

This product can be used across EU member states.

MANUFACTURER INFORMATION

Manufactured by

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Made in China