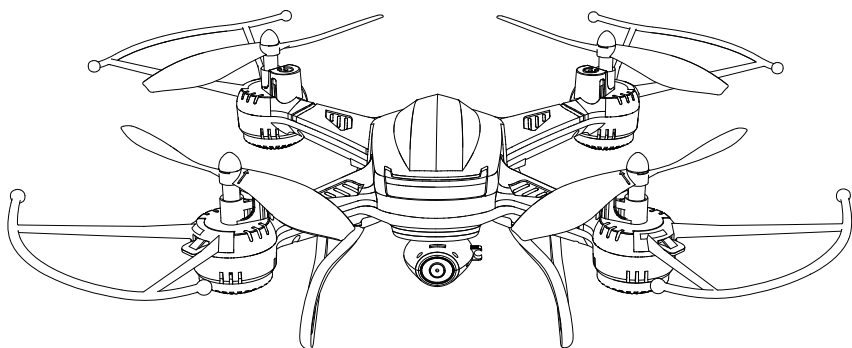




14⁺
age

Instructions For Use

V 1.0



F181W



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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 Holy Stone 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 Holy Stone'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:



Fly in Open Areas

**Maintain Line
of Sight**

**Fly Below
390 feet (120 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.



Don't use this drone in adverse weather conditions such as rain, snow, fog, and wind.

2.3 Operation Requirements:

- ① Please don't use this product to follow any 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.



- ⑥ **Stay away from the rotating propellers and motors.**
- ⑦ **Don't fly in the 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 It is recommended to only use the USB charging cable that comes with the drone to charge the battery.
- ⑧ Don't connect the battery directly to wall outlets or car cigarette-lighter sockets.
- ⑨ Don't attempt to disassemble or modify the battery in any way.
- ⑩ 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.
- ⑪ Don't pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it!
- ⑫ 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.
- ⑬ Don't immerse the battery in water or allow it to get wet.
- ⑭ Don't solder battery terminal directly.
- ⑮ Keep battery out of reach of children or pets.
- ⑯ Don't short-circuit the battery by connecting wires or other metal object to the positive(+) and negative(-) terminals.



Li-Po Battery Disposal & Recycling

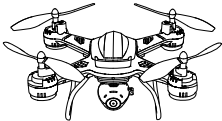


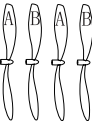
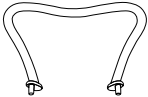
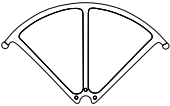
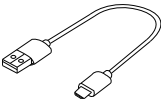

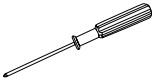


Waste Lithium-polymer batteries must not be placed with household trash.
Please contact local environmental or waste agency or the waste agency
or the supplier of your model or your nearest Li-Po battery recycling center.



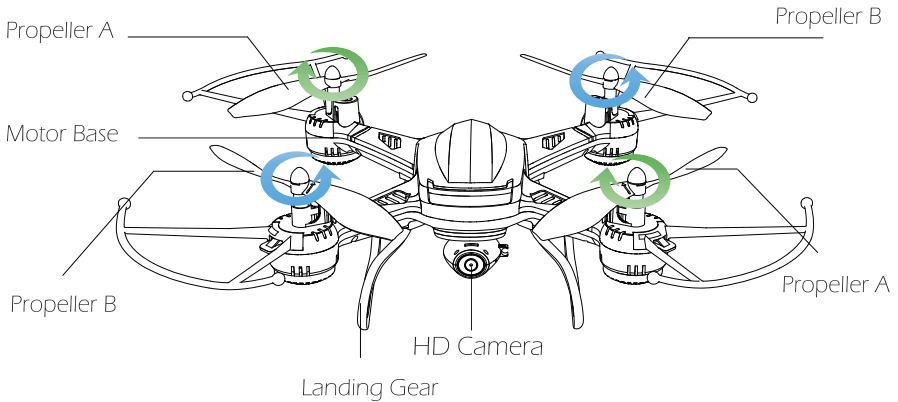
3.0 MAINTENANCE

- 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.

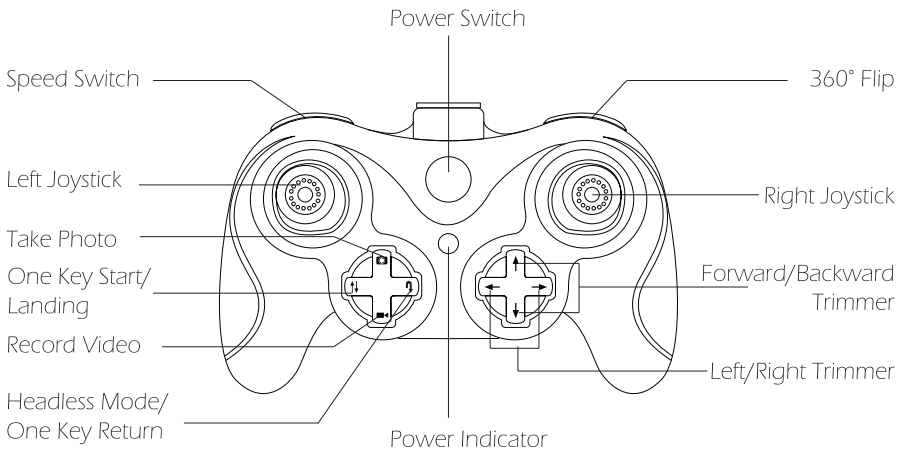
4.0 PACKAGE CONTENTS

 <p>× 1</p>	 <p>× 1</p>	 <p>× 1</p>
<p>Drone</p>	<p>Transmitter</p>	<p>Drone Battery</p>
 <p>× 1</p>	 <p>× 2</p>	 <p>× 4</p>
<p>Propellers</p>	<p>Landing Gear</p>	<p>Protection Guards</p>
 <p>× 1</p>	 <p>× 4</p>	 <p>× 1</p>
<p>USB Charging Cable</p>	<p>Screws</p>	<p>Screwdriver</p>
 <p>× 1</p>	 <p>× 1</p>	
<p>Phone Holder</p>	<p>Instructions For Use</p>	

5.0 DRONE'S DETAILS



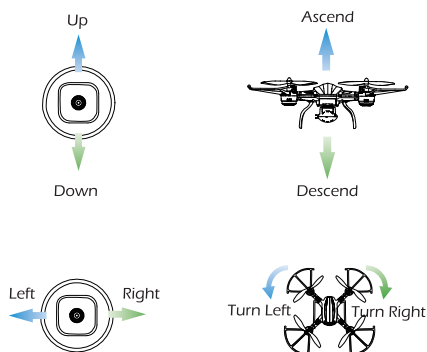
6.0 TRANSMITTER DETAILS



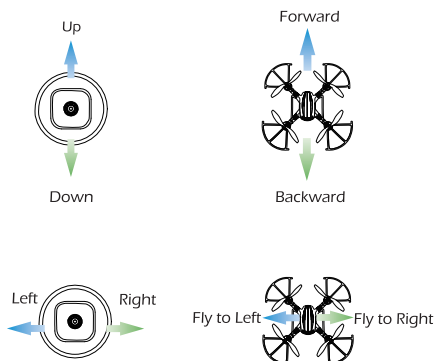
7.0 Mode Switch

7.1 MODE 2 (Left hand throttle MODE 2 will be default setting)

Left Joystick



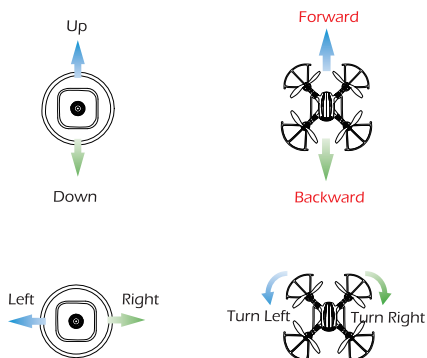
Right Joystick



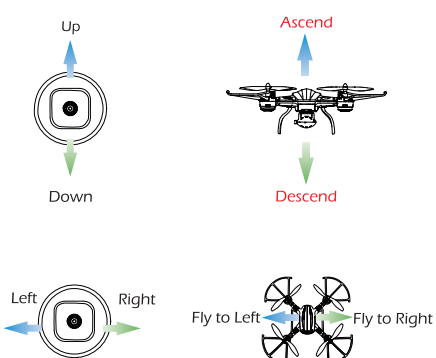
7.2 MODE 1

Hold down the " SPEED SWITCH " button and then turn on the power switch to enter MODE 1.

Left Joystick

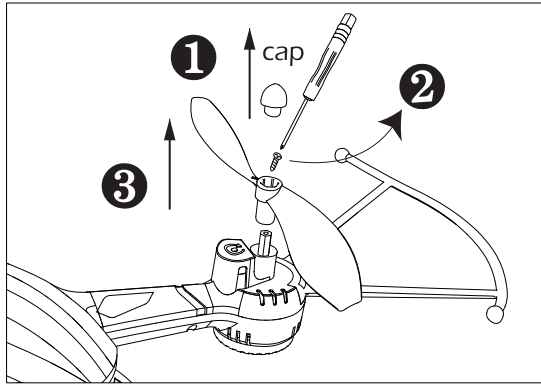


Right Joystick



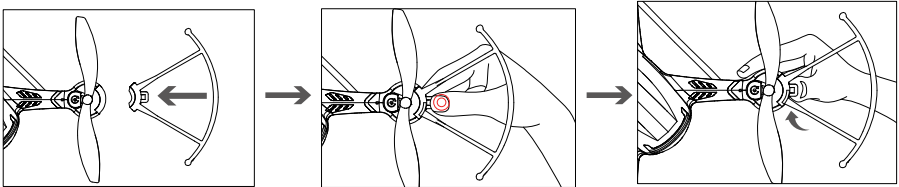
8.0 INSTALLATION

► 8.1 Propellers



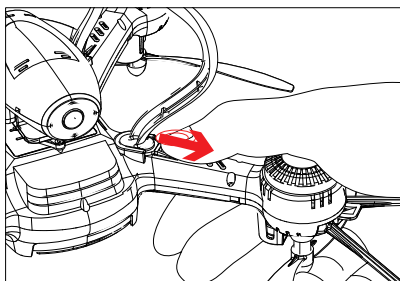
- ① After removing the cap, the propeller can be removed by unscrewing and removing the on the propeller.
- ② After the correct propeller being loaded into the gear rod, the screw and cap are loaded back to the propeller in sequence.

► 8.2 Protection Guards

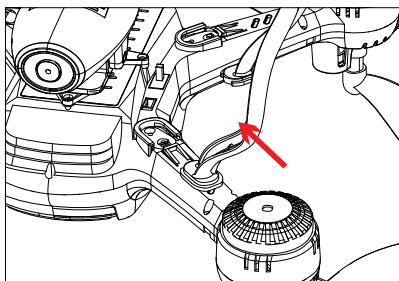


- ① As shown above, push the protection guard into the motor base.
- ② The protection guard can be fixed by pressing the clip on the protection guard.
- ③ The protection guard can be removed by pushing up the clip on the protection guard.

► 8.3 Landing Gear



Pic 1

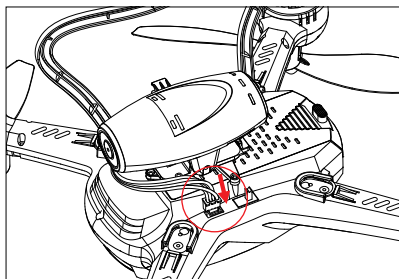
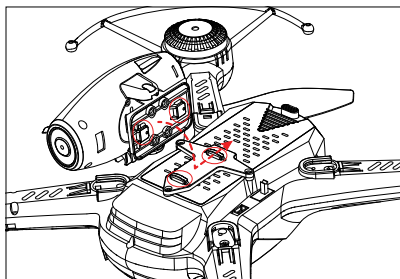


Pic 2

① As shown above, the landing gear can be removed by pulling back the landing gear while slightly pressing the buckle of the landing gear on the wing. (Pic 1)

② Push the landing gear into the landing gear chuck on the body, and then, the installation of the landing gear is completed. (Pic 2)

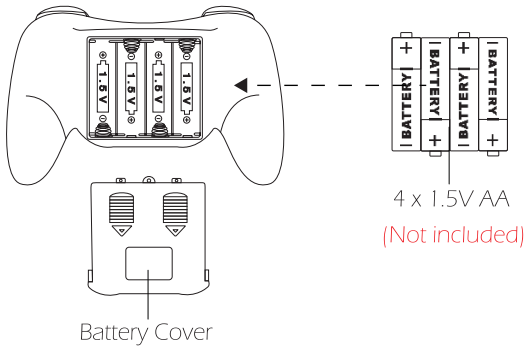
► 8.4 Camera



① Install the camera into the camera holder on the battery compartment of the drone.

② Connect the camera connection wire with the camera interface on the drone.

► 8.5 Transmitter Battery

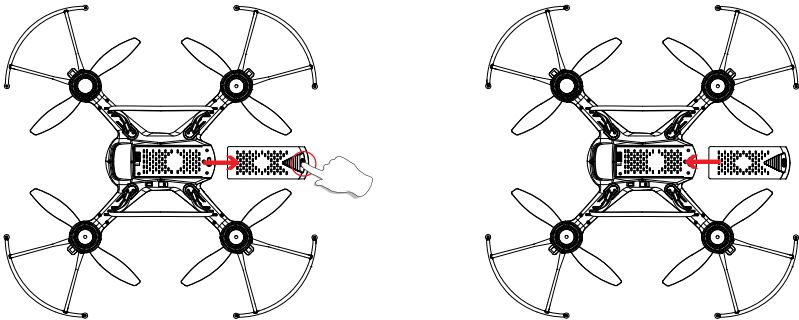


According to the above diagrams, install 4 x 1.5V AA batteries to the battery compartment of the transmitter.

Note:

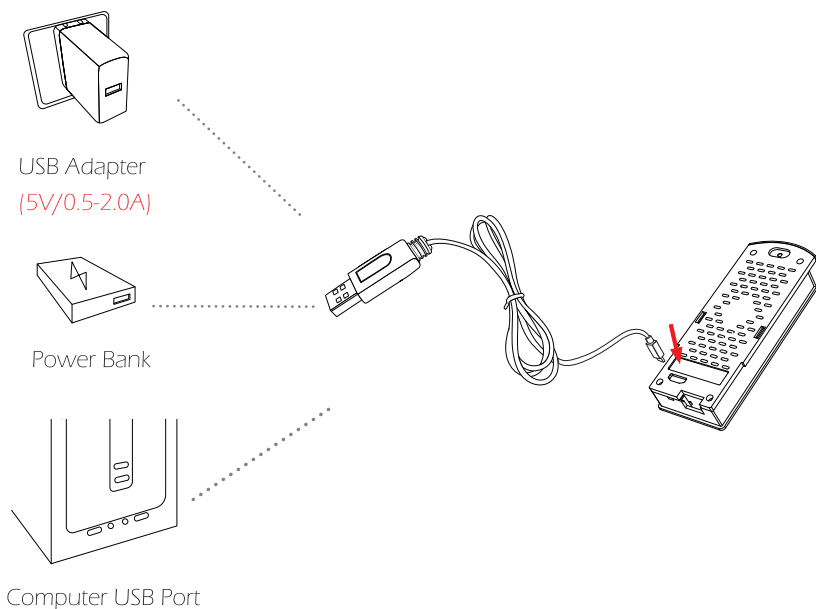
Always pay close attention to the battery polarity if you want to insert any batteries to make sure they are fitted correctly.

► 8.6 Drone's Battery



- ① As shown in the figure above, press down the battery lock on the battery and push the battery back to remove it.
- ② Push the battery into the battery compartment at the bottom of the drone to complete the battery installation.

9.0 CHARGING



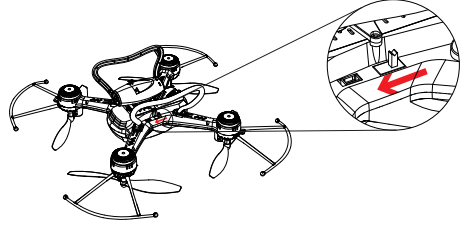
- ① Connect the USB Charging Cable to a USB Adapter (5V/2.0A), a Power Bank or Computer USB Port for charge.
- ② The indicator on the battery will turn red when charging and turn off when the battery is fully charged.
- ③ Charging time: 60~90 minutes.
- ④ When the drone battery is in a low-power state, the light on the drone will start to flicker. At this point, please stop flying and charge the battery of the drone when the battery and motor are cooled.

10.0 FLIGHT

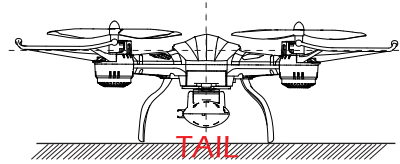
All of the following operations on this manual takes MODE 2 for example.

► 10.1 Pairing

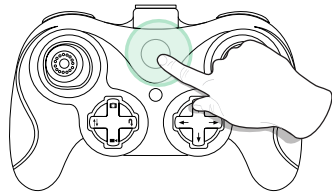
① Push the power button to “ON” status to turn on the drone. Now the LED indicator lights on the drone will be blinking.



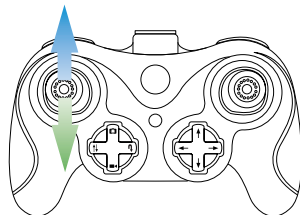
② Place the drone on a flat and level surface with the head forward and the tail towards the pilot.



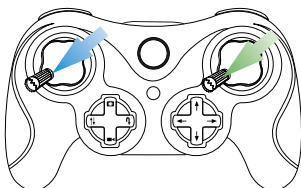
③ Turn on the transmitter, and you will hear “Di”.



④ Push the Throttle (Left) Joystick up then down to pair the drone with the transmitter. The LED indicator lights on the drone will be solid if the drone is paired successfully.



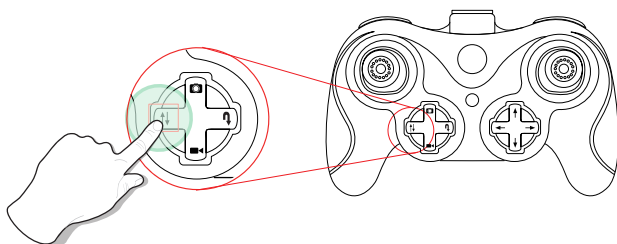
► 10.2 Calibrate the Gyro



Simultaneously push the left joystick and the right joystick to the bottom left corner. When the drone's indicator light change from quick flash to solid, and the transmitter beep once, the gyroscope calibration is completed.

Tips: To ensure a stable flight, we suggest the pilot calibrate the gyro every time after pairing the drone and after a crash.

► 10.3 One Key Start/ Landing

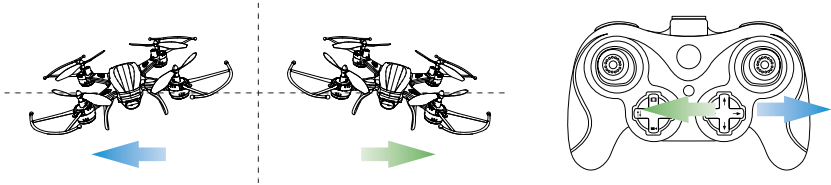


After pairing/ calibration, press the One Key Start/ Landing button, the propellers will start spinning, indicating this drone is ready to fly, and you can control this drone by using the joysticks.

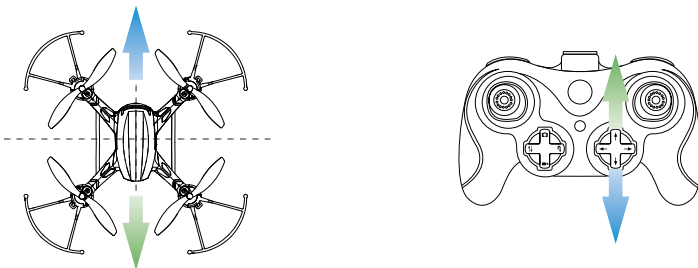
Press the One Key Start/ Landing button again, the drone will automatically land on the ground.

11.0 FUNCTIONS DETAILS

► 11.1 Trimmer



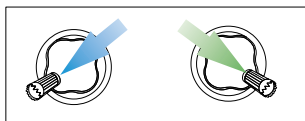
L/R Sideward Fly Trim: If the drone drifts left, press the right trimmer button to re-balance the drone. If the drone drifts to right, press the left trimmer button to re-balance the drone.



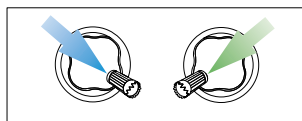
F/B Sideward Fly Trim: If the drone drifts forward, press the backward trimmer button to re-balance the drone. If the drone drifts backward, press the forward trimmer button to re-balance the drone.

► 11.2 Emergency Stop

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



Pic 3

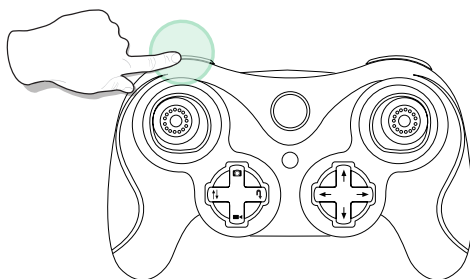


Pic 4

Method 1: Push the left joystick to the bottom left and push right joystick to the bottom right for about 2 seconds (**Pic 3**), the motors will stop immediately and the drone will fall directly.

Method 2: Push left joystick to the bottom right and push right joystick to the bottom left for about 2 seconds to stop the drone (**Pic 4**).

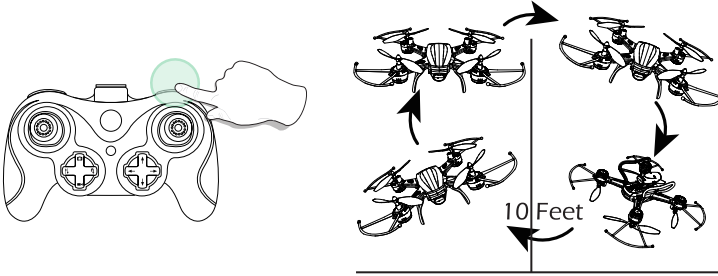
► 11.3 Speed Switch



This drone comes with 4 speed levels (Low/ Medium/ High/ Expert). Press the Speed Switch button on the upper left of the transmitter to switch the speed. Increase or decrease one speed at a time. “Di” indicates Low speed. “Di Di” indicates Medium speed. “Di Di Di” indicates High speed, and “Di Di Di Di” indicates Expert speed.

(The Low Speed is default speed mode.)

► 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 the 360° Flip button on the upper right of 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.

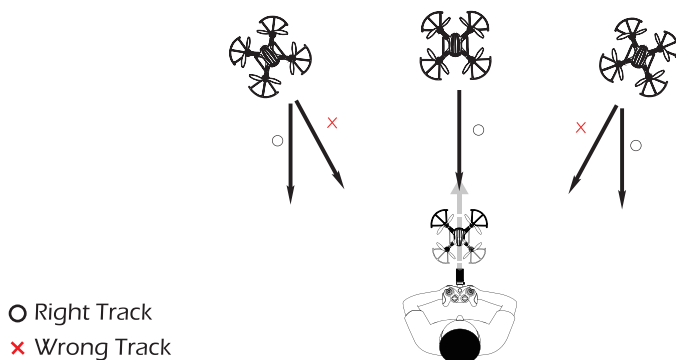
► 11.5 Take Photo/ Video

① **Take Photo:** Press the Photo button to take photo. The camera will take a photo every time when you press this button. Every time press this button, the red indicator light in the camera will flash four times.

② **Record Video:** Press the Video button to start recording video, the red indicator light in the camera keep flash quickly, and press it again to end and save the video, the red indicator light in the camera will change from fast flash to slow flash.

(Don't take photos while camera is recording video.)

► 11.6 Headless Mode/ One Key Return



1. Press the Headless Mode button on the transmitter to enter Headless Mode. The LED lights of the drone will start flashing and the drone sounds will beep constantly.
2. Then the drone will fly back to the pilot directly. This is One Key Return function.
3. Push the Right Joystick to any direction to operate the drone in Headless Mode and the drone will exit the One Key Return function.
4. Press the Headless Mode button again to exit Headless Mode.

Tips:

1. When pairing the transmitter to the drone, make sure the head of the drone is facing forward, and the tail of the drone is facing towards the pilot (and the transmitter) as seen in the diagram above.
2. When flying in Headless Mode/ One Key Return, the pilot should not move around. This is because the drone will fly relative to the point where it was paired (to the transmitter), not relative to where the transmitter is.
3. When using Headless Mode/ One Key Return, it is important to stay stationary and facing the same direction as you were when the drone and transmitter were paired.

12.0 FPV REAL-TIME FUNCTIONS

► 12.1 Download and Install APP

The drone is equipped with FPV real-time camera function as well as gravity sensor control function. Please scan the QR code below to download the “**Deerc FPV**” App to use these functions.



iOS



Android APP on Google play

Connect to the App Store™ or Google™ Play and download the “**Deerc FPV**” application for free.

► 12.2 Applicable Mobile System

iOS 7.0 or above / Android 4.4.4 or above.

► 12.3 Wi-Fi Connection

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

① Your smart phone will launch a search of the available Wi-Fi networks.

② Select the Wi-Fi network: **HolyStoneFPV-*******.

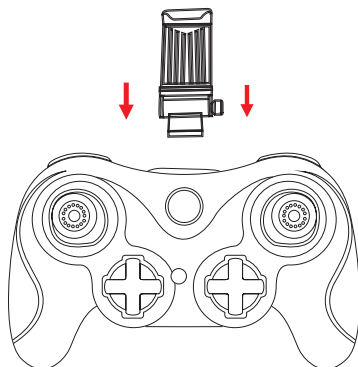
③ Wait your smart phone for several seconds to connect the Wi-Fi network of the drone.

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

④ Enter the " **Deerc FPV** " application.

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

► 12.4 Phone Holder



According to the above diagrams , install the phone holder to the transmitter for the use of the real time image function.

13.0 SPECIFICATION

DRONE

Model: F181W

Weight: 163g/ 5.7oz

Flight Time: 10 minutes

Motor Model: 8520

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

Dimensions: 305 x 305 x 105 mm

TRANSMITTER

Operating Frequency: 2.4GHz

Transmission Distance: 328 feet (outdoors and unobstructed)

Battery: 1.5V AA batteries (NOT included)

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

DRONE BATTERY

Capacity: 750 mAh

Voltage: 3.7 V

Battery Type: Li-Po Battery

Energy: 2.775 Wh

Charging power: 5~10W

Charging Time: 60~90 mins

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

CAMERA

Camera frequency: 2.4GHz

Lens: FOV 120° f/2.0

Video Recording Modes: HD1920×1080p

FPV Distance: 230 feet (outdoor and unobstructed)

Max Video Bitrate: 25 fps

Photo: JPEG

Video: AVI /MP4

Max Supported TF Cards: 32 GB (NOT included)

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

USB CHARGING CABLE

Voltage: 5 V

Rated Power: ≤10 W

14.0 TROUBLE SHOOTING

Problem	Reason	Solution
The LED lights on the drone are flashing, but the drone is not responding.	<ol style="list-style-type: none"> 1. Insufficient battery power. 2. Transmitter is not connected to the drone. 3. Drone landing position is not balanced. 4. Drone cannot be paired because the drone has been on for a long period of time. 	<ol style="list-style-type: none"> 1. Fully charge the battery. 2. Turn off the drone and transmitter, then, reconnect them by turning them on again. 3. Place the drone on a level surface when pairing. 4. Turn off the drone and transmitter, then, turn them on again to pairing.
The propellers spin, but the drone doesn't fly.	<ol style="list-style-type: none"> 1. Insufficient battery power. 2. Propellers not installed in the correct orientation. 3. Damaged propellers. 4. Something caught in the propellers or gears. 	<ol style="list-style-type: none"> 1. Fully charge the battery. 2. Check the letter "A" and "B" which printed on the propellers correspond to the diagram on page 3 of this manual. 3. Replace old propellers with new ones. 4. Ensure gears and propellers are clear and that there is nothing caught in them.
The drone does not fly properly after a crash.	<ol style="list-style-type: none"> 1. Propellers are not installed in the correct positions. 2. Damaged propellers. 3. The gyro has lost calibration. 4. Propellers have hit the propeller guard. 5. Wire or circuit board broken. 6. Motors burnt out. 	<ol style="list-style-type: none"> 1. Check the propeller order. 2. Replace propellers with new ones. 3. Reset the gyro. Press trim buttons to fine tune the direction. 4. Make sure the propellers work well. 5. Replace the circuit board. 6. Replace the motors.

Problem	Reason	Solution
One Key Return button doesn't work properly.	<ol style="list-style-type: none"> 1. Propellers are not installed in the correct positions. 2. Damaged propellers. 3. The gyro has lost calibration. 4. Propellers have hit the propeller guard. 5. Wire or circuit board broken. 6. Motors burnt out. 	<ol style="list-style-type: none"> 1. Check the propeller order. 2. Replace propellers with new ones. 3. Reset the gyro. Press trim buttons to fine tune the direction. 4. Make sure the propellers work well. 5. Replace the circuit board. 6. Replace the motors.
Photo or Video doesn't work properly.	<ol style="list-style-type: none"> 1. Insufficient battery power. 2. The camera is broken. 3. TF card is full. 	<ol style="list-style-type: none"> 1. Fully charge battery or use new battery. 2. Replace the camera. 3. Remove files from TF card, or use and empty TF card.
Image can't be displayed on computer.	<ol style="list-style-type: none"> 1. Media player does not support the file format. 2. Video is not successfully recorded. 	<ol style="list-style-type: none"> 1. Try new media player(such as VLC Media Player). 2. Press video button second time to stop the video and save the file.

15.0 CONTACT US

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



usa@holystone.com (USA)
ca@holystone.com (CA)

eu@holystone.com (EU)
jp@holystone.com (JP)



+1(855) 888-6699

16.0 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

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. 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 minimum distance 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 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 odor, overheating, discolouration, deformation or leakage.
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 do not 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 charge on a flammable surface, near flammable products or inside a vehicle (preferably 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): 10dBm (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 MODEL/RADIO CONTROLLED
Model/Mark : F181W/HOLYSTONE

The Statement of compliance is available at the following address:

http://www.holystone.com/docs/F181W_EU_DOC.pdf

This product can be used across EU member states.

MANUFACTURER INFORMATION

Manufactured by

Xiamen Huoshiquan Import & Export CO., LTD

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+1(855) 888-6699



Made in China

