

# INSTRUCTION



Thank you for your purchase of our product.  
Please read the Operation Instruction carefully and keep it properly.  
Please refer to this Instruction for the use of our product.









FCC ID:2ARWR16495

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# Items List

Please check the items in package before using.

Drone:	1	
Rotor guards:	4	
Propellers :	1 type A 1 type B 1 type C 1 type D	
USB charger:	1	
Remote control:	1	
Screwdriver:	1	
Instruction of product:	1	
Instruction of APP:	1 (optional)	

# Drone

## General Introductions

The Drone has excellent controllability and stability. In addition to supporting basic flight and flip mode, the Drone offers photographing / video recording function, auto-hover function, wi-fi flight function, Smartphone G-sensor function, headless flight function, low-battery warning and automatic safe landing function.

## Battery Charging Instructions

Lithium battery is used in this product, which has rechargeable battery protection and over discharge protection. The battery must be charged with our designated USB charger.

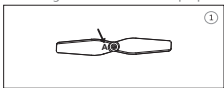
**⚠ Please charge fully the battery when the battery is used for the first time.**

Attach the plug on the product to the plug on the USB charger. Then plug the USB charger into the USB port of a powered ON computer or USB power adapter. The indicator in USB charger will light while charging, and turns off while charging completed. Please ensure that the battery is fully charged before using the product.

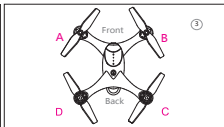
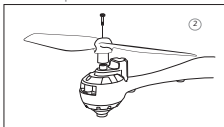
## Installing the Propellers

The Drone comes with replaceable propellers if the originals are broken or badly damaged.

- (1) When installing for the first time, please carefully distinguish the propellers type. The marking can be found on the propeller.



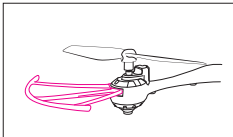
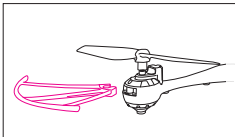
- (2) Referring to Figure 2, use the screwdriver to unscrew and install the propeller which need to replace.



- (3) Referring to Figure 3, it is extremely important to use the correct propeller for replacement. Using the incorrect propeller will make the drone out of control.

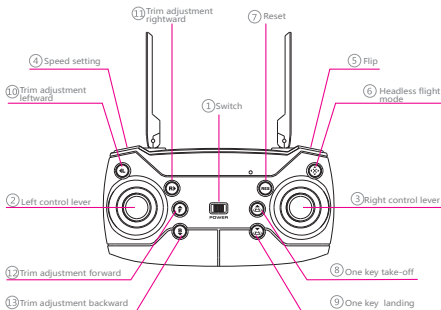
## Installing the Rotor Guards

- (1) Make sure the rotor guard has been installed before you use the drone. The role of the rotor guard is to enhance impact-resistant ability of the drone and reduce damage when it impacts object.
- (2) Install the rotor guard as the figure show, and ensure installation is firm.



# Remote Control

## Function Instructions



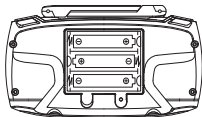
No.	Function Keys	Function Description
①	Switch	Power ON the remote. The light on the remote will blink as it searches for the signal from the drone. An audible chime will sound when the remote and the drone have linked with each other.
②	Left control lever (fly upward and downward, spin clockwise and anticlockwise)	Use the Left Control Lever to take off and control the throttle, and Yaw (Spin) movement of the drone.
③	Right control lever (level flight)	Use the Right Control Lever to control the pitch (forward/backward) and roll (left/right) movement of the drone.
④	Speed setting	Press to change the speed setting.

⑤	Flip	Press once, then move Right Control Lever in any direction to perform a flip.
⑥	Headless flight mode	Please refer to the introduction of Headless Flight Mode on page 13.
⑦	Reset	Press to reset trim setting to default.
⑧	One key take-off	Press this key to take off the drone.
⑨	One key landing	Press this key to land the drone.
⑩	Trim adjustment leftward	If the drone flies rightward automatically in balance flight, you can press this button to adjust by making it fly to leftward direction.
⑪	Trim adjustment rightward	If the drone flies leftward automatically in balance flight, you can press this button to adjust by making it fly to rightward direction.
⑫	Trim adjustment forward	If the drone flies backward automatically in balance flight, you can press this button to adjust by making it fly to forward direction.
⑬	Trim adjustment backward	If the drone flies forward automatically in balance flight, you can press this button to adjust by making it fly to backward direction.

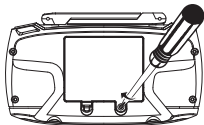
## Installing the Battery

Open the battery cover, put into 3 AA batteries in correct polarity position, and then close the battery cover and lock the screw.

①



②



# Flight Preparation

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Please have flight training before using the product (User should be guided by a professional.). Please choose appropriate flight environment when using the product.

## Applying Environment

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- (1) Choose an open place to fly where having no tall buildings.
- (2) Do not use this product in severe weather, such as strong wind, heavy snow, rain or fog days.
- (3) Please keep away from obstacles, crowds, high-voltage wires, trees, water, etc, when flying.
- (4) Do not fly in the area where there is complex electromagnetic environment (as near communication base station, signal transmission tower, or high-voltage station, etc.).
- (5) Do not fly in the area where it is not allowed to fly by laws and regulations.
- (6) Do not use this product in airports, stations and their surroundings.



## Preflight Inspection

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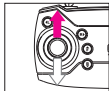
Please inspect the following items before flying:

- (1) Whether the drone and remote control are both with fully battery power.
- (2) Whether the propellers are installed correctly and without any damage.
- (3) Whether the propellers can run normally when the drone is started.

## Linking Remote Control and the Drone

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- (1) Place the drone on the level ground.
- (2) Turn on the switch of the drone first, and then turn on the switch of the remote control.
- (3) As shown in figure, push the left lever of remote control fully forward, wait for a chime to sound, then pull the lever fully rearward, and wait for a second chime. When this last chime has sounded, the lights on drone turn from flashing to constant, the drone is ready to fly.



If the linking is not successful or the waiting time is too long, you should turn off both drone and remote control power and repeat the steps above.

# Basic Flight

After the success of signal match between the remote and the drone, please complete the following two operations before you start the motor on drone.

## 1. Setting headless flight direction

As shown in Figure 1: pull the two remote control levers at the same time to the left bottom corner. If the lights on drone begin to flash slowly at the same time, it means that this operation is completed. For the function of setting headless flight direction, please refer to "Headless Mode" in Advanced Flight Function.

## 2. Calibrating of gyroscope

This step is important to normally flying of the drone. Please put the drone on the level ground or level surface to do this operation. Otherwise the drone may yaw toward any uncertain direction and should not be adjusted after any trimming, even damaging the motors.

As shown in Figure 2, pull the two remote control levers at the same time to the right bottom corner, if the lights on drone begin to flash fast at the same time, it means that this operation is completed.

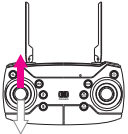
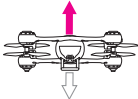
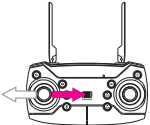


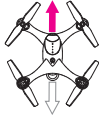
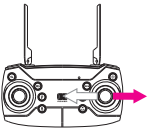
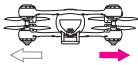
Note: It may cause gyroscope disable if the drone is collided or dropped seriously. Please recalibrate the gyroscope.











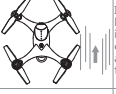



Remote control	Drone	Control method
		<b>Startup the drone motors</b> pull the two remote control levers as shown in the figure, and hold for 1-2 seconds to start the motors. After the motors start, release levers and push the levers to start flying.
		<b>Stop the drone motors</b> Stop the drone motors after drone lands to ground or other expected place, repeat the operation above for 1-2 seconds, the motors will be stop. The drone will have no reaction if you push the levers after this operation. The motor should be re-started if you want to play again.

Note: It does not mean that the motors has been stopped, when the propellers are in the static. Do not get close to or touch drone if you are not sure if the motors are stopped, otherwise you may be hurt by the suddenly turned propellers.

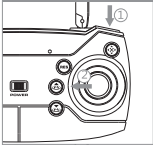
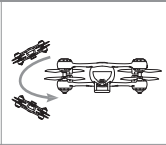
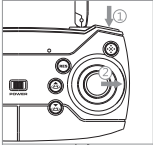
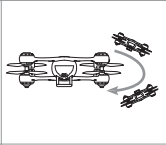
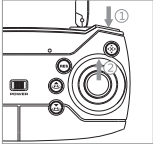
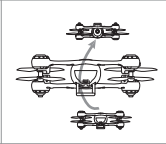
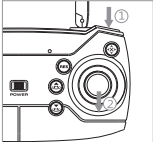
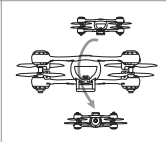


Remote control	Drone	Control method
	<p>Fly upward</p>  <p>Fly downward</p>	<p>Push left control lever forward, the drone ascends vertically. Pull left control lever rearward, the drone descends vertically.</p>
	<p>Spin clockwise</p>  <p>Spin anticlockwise</p>	<p>Push left control lever rightward, the drone spins clockwise. Pull left control lever leftward, the drone spins anticlockwise.</p>
	<p>Pitch forward</p>  <p>Pitch backward</p>	<p>Push right control lever forward, the drone pitches forward. Pull right control lever rearward, the drone pitches backward.</p>
	 <p>Roll leftward    Roll rightward</p>	<p>Push right control lever rightward, the drone rolls rightward. Push right control lever leftward, the drone rolls leftward.</p>

## Trim Adjustment

Remote control	Before adjustment	Adjustment direction	Control method
			If the drone flies rightward automatically in balance flight, you can press this button to adjust by making it fly to leftward direction.
			If the drone flies leftward automatically in balance flight, you can press this button to adjust by making it fly to rightward direction.
			If the drone flies backward automatically in balance flight, you can press this button to adjust by making it fly to forward direction.
			If the drone flies forward automatically in balance flight, you can press this button to adjust by making it fly to backward direction.

## Flip Mode

Remote control	Drone	Control method
		<p>Press the Flip button to activate Flip Mode, then push the right control lever leftward and the drone will perform a flip in the same direction.</p>
		<p>Press the Flip button to activate Flip Mode, then push the right control lever rightward and the drone will perform a flip in the same direction.</p>
		<p>Press the Flip button to activate Flip Mode, then push the right control lever forward and the drone will perform a flip in the same direction.</p>
		<p>Press the Flip button to activate Flip Mode, then push the right control lever backward and the drone will perform a flip in the same direction.</p>

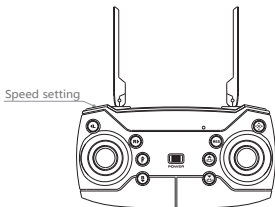
# Advanced Flight Function

## Taking Photos & Videos

If you buy a Wi-fi Flight Version, please refer to the "Instruction of APP" to use this function and the photos and videos recorded will be saved in your Smartphone. You

## Speed Setting

Press the button to change speed setting of drone. This product includes three speed thresholds: low speed, medium speed and high speed.

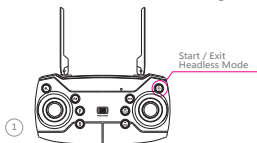


The three speed thresholds can only be cyclically changed in order: low speed changes to medium speed, medium speed changes to high speed, high speed changes to low speed. When drone is changed into low speed setting, the remote control will sound once, when drone is changed into medium speed setting, the remote control will sound twice, when drone is changed into high speed setting, the remote control will sound three times.

Note: If you buy a Without Camera Version or a Memory Card Version, the speed setting will be restored low speed after the power of the drone or the remote control is shut down. If you buy a Wi-fi Flight Version, the speed setting will be kept in the APP which used in last time.

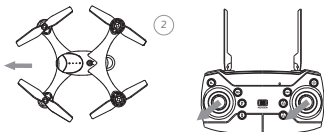
## Headless Mode

Headless mode: Set the headless flight direction after the drone is linked with the remote control. Then the front direction of drone (the camera side) is set as default direction of forward motion, the back direction of drone is set as default direction of backward motion, the left direction of drone is set as default direction of leftward motion and the right direction of drone is set as direction of rightward motion.



Enable headless mode: press the key on remote control as shown in Figure 1, the lights on drone will turn into flashing state from constantly-on state, it means that the drone has entered headless mode; press the button again, the lights will return to constantly-on state, it means that the drone has exited headless mode. After the start of headless mode, no matter which direction the drone is facing, the drone will fly to the default direction of forward motion which has been set when you push the right control lever upward, and the drone will fly to the default direction of backward motion which has been set when you pull the lever downward.

For example: the drone is put as shown in Figure 2, and then set the headless flight direction. The default direction of forward motion will be set as the arrow shows.



Enter headless mode when the drone is in the following state.

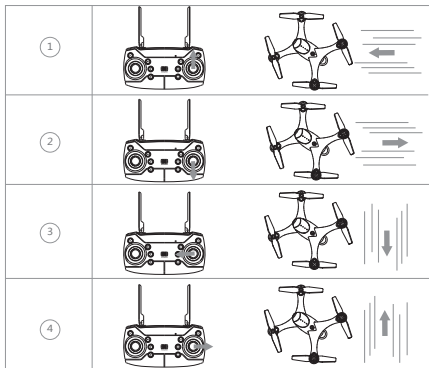
As shown in Figure 1, if the right control lever is pushed upward, the drone will move in the arrow direction,

As shown in Figure 2, if the right control lever is pushed downward, the drone will move in the arrow direction,

As shown in Figure 3, if the right control lever is pushed leftward, the drone will move in the arrow direction,

As shown in Figure 4, if the right control lever is pushed rightward, the drone will move in the arrow direction.

Note: this function can help users to control the drone returning to the taking off place if you cannot distinguish the directions of the drone.



## Lost-control Protection

It means that flight control system will handle the drone to land slowly near the place where control signal lost, in order to reduce probability of loss or fall accident. Drone will enter Lost-control Protection in following cases:

- ① Remote control loses power or APP is closed suddenly.
- ② Obstacles between remote control or Smartphone with the drone block signal propagation.
- ③ Remote control or wifi signal is interfered by other electromagnetic wave.
- ④ Drone is over the effective distance with remote control signal or wifi signal due to wind or inertia reason.

## Emergency Stop

When the drone is out of control or in case of emergency (twining branches, wires, hair, etc.), please turn off motors to stop the drone.

When the drone is flying in the air, this operation can cause the drone to fall and be damaged. It may also cause harm for people, livestock, or objects which under the drone. If circumstances permit, we advice users take another operation: pull left control lever downward for 2 seconds to land the drone in the usual way.

## FAQ and Solutions

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1 . The drone cannot take off, solution:

- ① check whether the switches of drone and remote control are turned on.
- ② check whether the batteries of drone and remote control have fully charged, if it is in the low battery power, please charge the drone battery or replace remote control batteries.
- ③ switch off the drone and remote control, and link again after both battery powers are switched on.

2 . Remote control cannot take pictures and videos, solution:

- ① Confirm the version of drone you bought.
- ② If the drone is a Wi-fi Flight Version, please turn on the APP in phone and link them before you begin to operate.

3 . Drone shakes or video shakes, solution:

- ① check whether propellers are cracked or deformed, if so, please replace the propellers.
- ② check whether rotor guards are not installed properly or deformed to result in imbalance of drone, or whether propellers rub the rotor guards.
- ③ check whether screws are fixed in place if you have removed them before.

4. Drone flies aslant toward one direction, solution:

- ① refer to Trim Adjustment Function to adjust.
- ② place the drone on the level ground or level surface to calibrate gyroscope again.

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

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