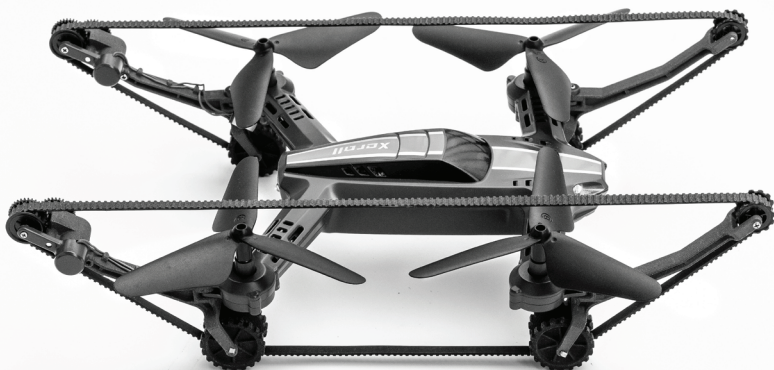


Ages 14 +

Xeroll®



X-TANKCOPTER

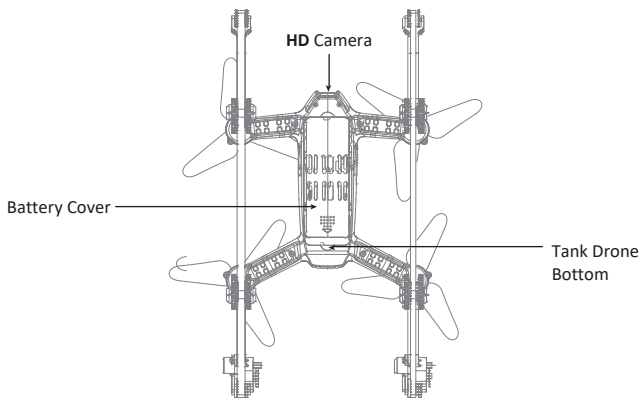
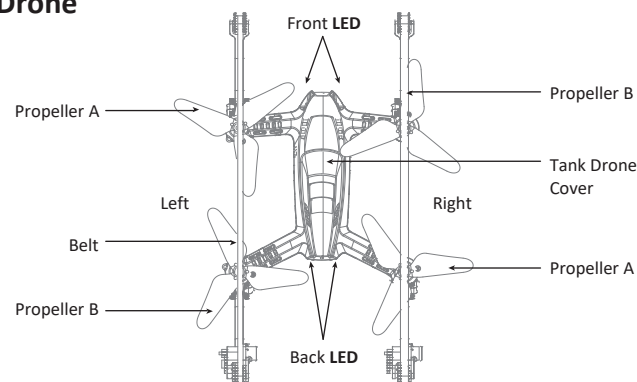
Instruction Manual

Catalogue

Overview of drone and transmitter	3
Part loading and unloading.....	7
Precautions before flying	10
Flying procedures	11
Function introductions.....	16
Know your App.....	18
Precautions before taking photos.....	19
Assembly parts list	20
Troubleshooting.....	22

Overview of drone and transmitter

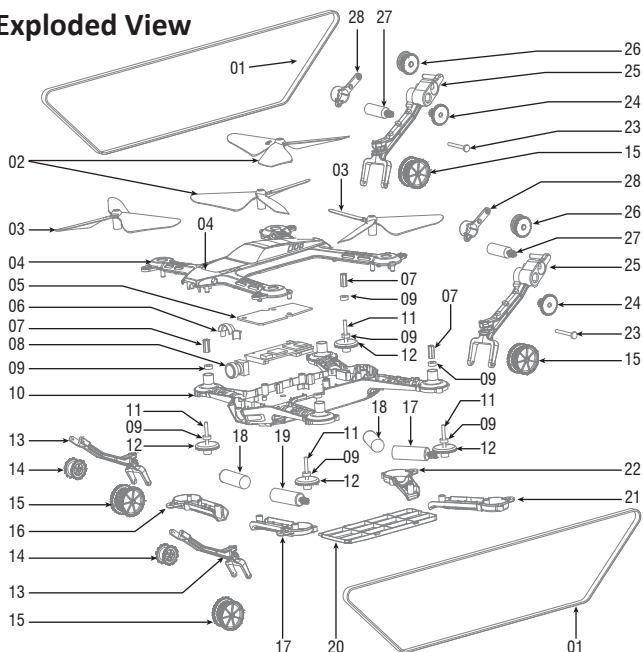
Drone



Main parameter

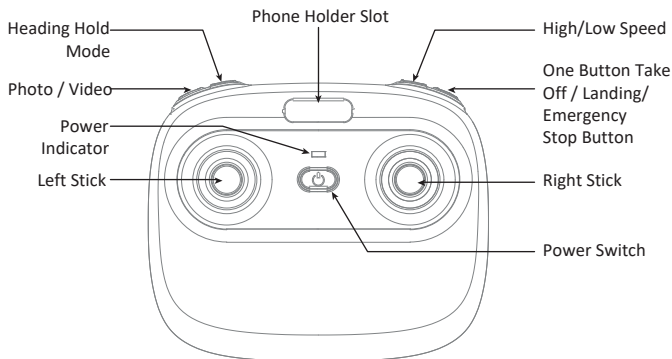
Drone Size	252x203x55.2mm	Drone Battery	3.7V 900mAh
Drone Weight	123g	Charging Time for Drone Battery	About 90~120 mins
Propeller Diameter	92.6mm	Flying distance/radius	About 50m
Flying Time	About 6~7 mins	Driving distance/radius	About 25m
Running Time	About 20~30 mins	Camera pixels	1280x720P

Exploded View

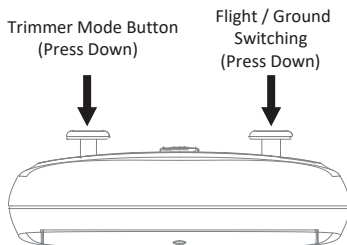


No.	Name	No.	Name
1	Belt	15	Belt big Wheel
2	Propeller A	16	Front Right Motor Cover
3	Propeller B	17	Front Left Motor Cover
4	Tank Drone Cover	18	Reverse Motor (White Plug)
5	Dash Receiver	19	Forward Motor (Red Plug)
6	Camera Press	20	Battery Cover
7	Iron Shaft Sleeve	21	Rear Left Motor Cover
8	Camera Plate	22	Rear Right Motor Cover
9	Bearing	23	Belt Rotated Gear Shaft
10	Tank Drone Bottom	24	Rotary Tooth Of Model T
11	Chief Axis	25	Rear Bracket
12	Gear Wheel	26	Rear Belt Rotating Wheel
13	Front Bracket	27	Belt Motor
14	Front Belt Rotary Wheel	28	Belt Motor Cover

Transmitter



Notice: Taking photo and recording video are available after connecting with smart phone.

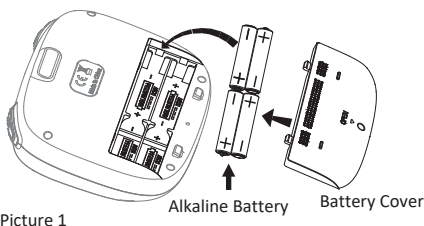


Controller Button Functions

Power Switch:	Press down the power switch to turn on the remote controller, press it down again to turn off the remote controller.
Left Stick:	To control the drone taking off /landing/ left side flying/ right side flying; To control its right turning while flying.
Right Stick:	To control the drone forward/backward/left side flying/right side flying; To control its left turning while flying.
Heading Hold Mode:	Press the key to the headless mode, press it again to exist the function.
Photo / Video:	Press it for taking a picture, and press it for two seconds, it starts to make videos.
High / low speed:	Click on this button to start the function of high/low speed mode switching.
Take Off / Landing / Emergency Stop Button:	Press the key before taking off, the drone will make automatic flying; Press the key while flying, the drone will land automatically or press the key for a while, the drone will land on the ground directly.
Trimmer Mode Button:	Press the key down, pull the right control rod to the direction you wanted, then it can go under your control, release to exist.
Flight / Ground Switching:	When pressing down the key, it's changed to the flying mode, press it again to come to the ground mode.

Battery Installation

Open the battery cover on the back side of the transmitter, insert 4 AA batteries following the polarity indicators. (Picture 1/2, battery is not included.)

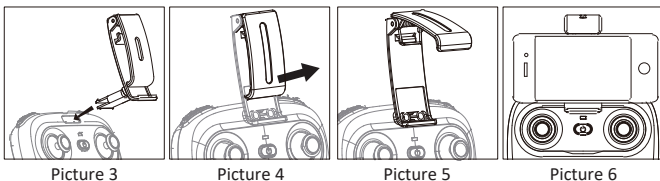


Notice:

1. Make sure the electrodes are correct.
2. Do not mix new with old batteries.
3. Do not mix different kinds of batteries.
4. Do not charge the non rechargeable battery.

Phone Installation Instruction

1. Take out the phone holder and insert into the controller (Picture 3).
2. Pull out upper clamp of the holder (Picture 4/5), put the phone into the holder, then release the clamp, and the phone will be fixed on the holder (Picture 6).
3. When taking out the phone clip, you need to press the clip buckle behind the phone clip at the same time, so that the buckle can be closed and removed easily.

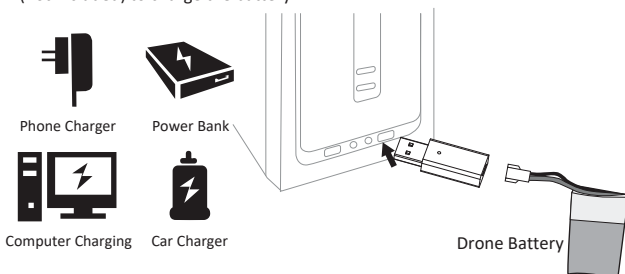


Notice: Make sure that the button on the phone is not clamped.

Charging Instruction for Drone Battery

1. Connect the drone battery with USB cable first and then choose one of the method as the picture below shows to connect with USB plug.
2. The red USB indicator light keeps bright when charging and the light turns green when fully charged.

* For faster charging, it is recommended to use an adapter with 5V 2A output current (not included) to charge the battery



Li-Po Battery Disposal & Recycling

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



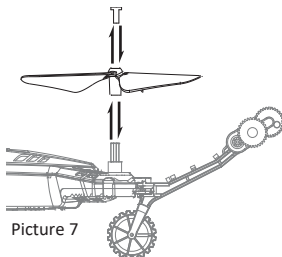
Installing & Removing Component

Propeller Installation Diagram

When removing the propeller, firstly using the screwdriver for distribution to loosen the screw on the top of the propeller, then you can take out the broken propeller. (Picture 7).

When loading the propeller, firstly please insert the new propeller to the iron sleeve, then twist the screw in the right place, it's ready for operation now.

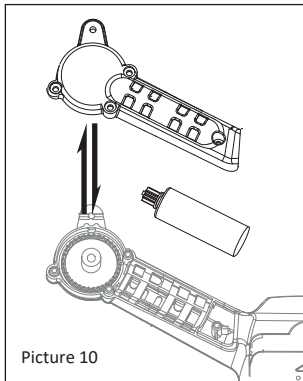
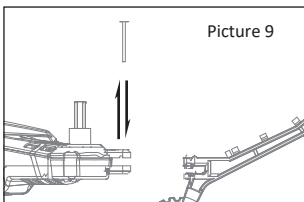
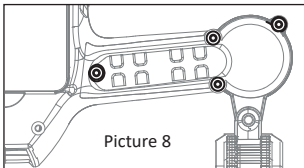
Note: When installing, please make sure to have the right installation for propeller, otherwise the drone can't be operated normally.



Picture 7

Motors Replacement

1. Twist out the the four screws of the motor cover anticlockwise with the screwdriver for distribution (Picture 8).
2. Twist out the screws of the scaffold, then open the motor cover (Picture 9).
3. Please firstly take out the broken motor, connect the plug in the relative color to the plug motor, then install the motor to the battery jar, close the motor cover, lock the screws, it's finished now(Picture 10).



WARNING: The motor's rotating direction should be the same, or it will not work.

Note: The motor is consumable. If it is damaged, visit the local seller to buy the new motor for replacement.

Diagram of belt loading and unloading

When installing the belt, please belt up the front/rear rotating wheel and belt wheel.

When disassembling the belt, you can pull out the belt out from the front/ rear belt rotating wheel and the belt wheel.

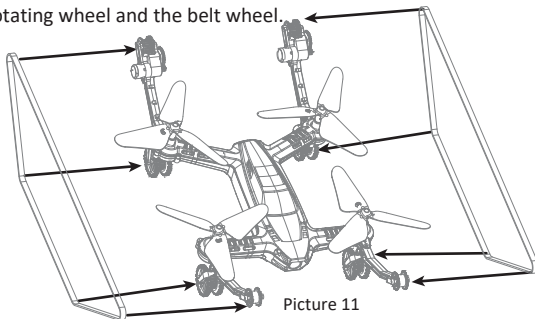


Diagram of scaffold loading and unloading

1. Please twist out the screws of the front support bracket anticlockwise with the screwdriver for distribution (Picture 12), take out the broken bracket, then replace a new one.
2. Please twist out the screws of the rear bracket anticlockwise with the screwdriver for distribution, pull out the plug to take out the broken bracket, then replace a new one (Picture 13).

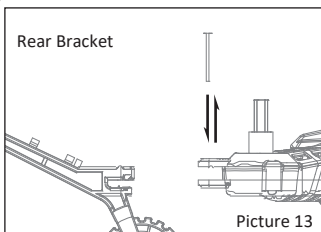
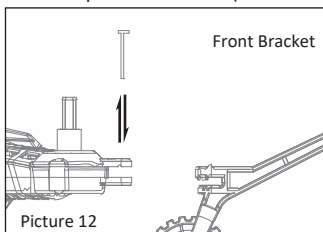
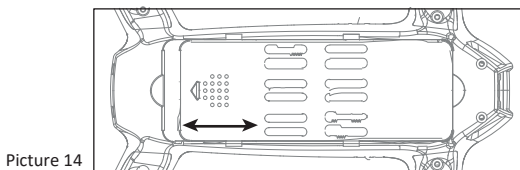
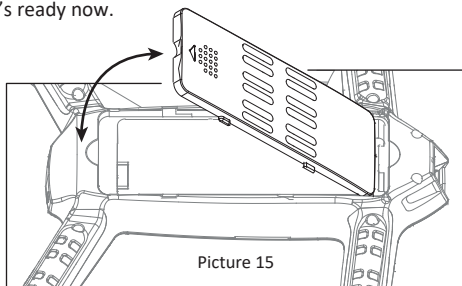


Diagram of battery installation

1. Press the battery cover to the right position as the direction the arrow shows (Picture 14).



2. Open the battery cover upward (Picture 15) then insert the lithium battery to the battery box, insert battery plug and tank drone socket, lock the battery cover. It's ready now.

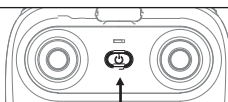
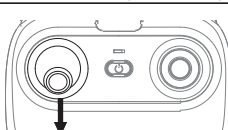


Precautions before flying

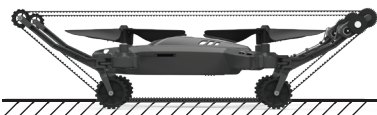
1. Please make sure that the battery power of the drones and the transmitter are in a state of saturation.
2. Before turning on the transmitter, please make sure that the left stick is in the middle position.
3. You must obey the right order of turning ON the power. Firstly, you should turn on the transmitter, next to make the connection for the power supply of the drone; While before turning off the power, you must disconnect the drone first, then to turn off the transmitter. For improper order may cause the drone out of control, thus may do damage to the safety of yourself and others. So please cultivate a good habit of connecting and disconnecting the power supply.
4. Please confirm that the connection between lithium batteries and motors and other components is reliable. If there's continuous vibration while flying, thus may cause the loosen of the attaching plug. Finally, the drone will be out of control.
5. Please confirm the directions of propeller rotation. Propeller A of the front and rear propellers runs clockwise rotation. And propeller B of the right front and left rear runs counterclockwise rotation.
6. Improper operation may cause air crash, and it may make the motor or propellers work badly or make noise. Thus situations all lead to the flying state or it can't fly. If so, we suggest you to purchase new components from the local seller to replace it in time. And thus the drone can return to the best state.
7. Please check to see whether the plug line connection is firm, be sure that the gear can not be wound to sundries, and to ensure smooth skating, or it may do damage to the driving motor.
8. If there's loosening of a belt, running on the ground is one side or no driving; And while flying, it make addle the propeller of a belt and cause a runaway crash.

Flight Instruction

Frequency Pairing

 <p>Power switch (Press down)</p>	<p>Turn on the transmitter switch and the power indicator light flashes rapidly.</p>
	<p>Pull the Left Stick all the way down to the lowest position and then release. The Left Stick will back to the middle position automatically. The power indicator light flashes slowly, which indicates the transmitter is ready for frequency pairing.</p>

Turn on electricity of the drone, the light will change the state from shiny to long bright, then the drone finishes the right frequency and starts to remote status.
(Telecontrol note)



It's a must to put the drone on the horizontal position !!!

Take Off

After code pairing successful, press the Take Off / Landing / Emergency Stop Button, the drone will fly up automatically and keep flying at an altitude of 1.2 meters approximately.

Landing

When flying, press the Take Off / Landing / Emergency Stop Button once shortly, and the drone will land on the ground automatically.

(When using this function, you can not touch the left stick, if so, the function will fail.)



Emergency Stop

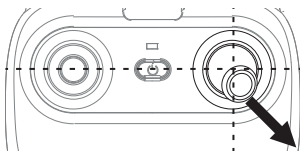
When the drone in emergency situation and going to hit the walking people or obstacle etc., press the Take Off / Landing / Emergency Stop Button immediately and hold it for more than 1s, the propellers will stop immediately.

Tip: Do not use the emergency stop function unless in emergency situation.
The drone will fall down suddenly after all propellers stop.

Drone calibration

(Only take this action when abnormal flying)

After code pairing, push the right stick as picture shows. (Don't move the left stick before successful calibration), the drone body light will flash 3 times indicating that the drone is calibrating. After successful calibration, the drone lights will become solid and ready to fly.

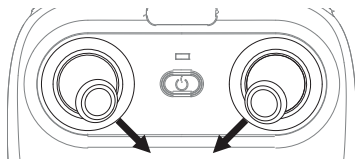


Tips: Crashing the drone may cause it imbalanced beyond the level that can be adjusted by the trimmer button. If this occurs, you can re-pairing & re-calibrate.

Unlock/lock the motors

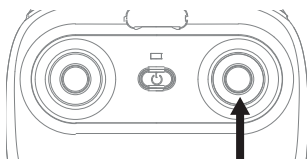
Unlock the motors: Push left/right stickers inward 45 degree at the same time.

Lock the motors: When the motors are running, this operation will cause the motors stop running immediately.



Flight and ground switching

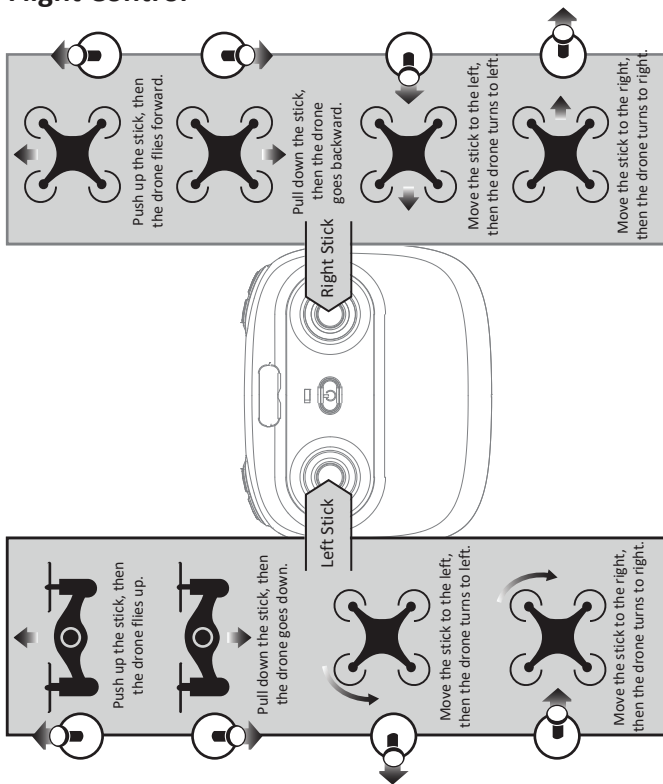
Press down right stick, it makes the sound of "di", the drone starts the ground running mode. Press it again, after you hear the sound of "di", it comes to the flying mode. (Default is flight mode)



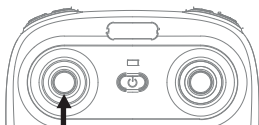
Flight and ground switching (press down)

Note: When the drone is in flying mode, please do not switch to the ground mode. When it's in the ground mode, the front and back lights flicker.

Flight Control



Trimmer mode



Forward and backward trimmer

When taking off, if the drone tilts forward, press down the trimmer button and push the right stick backwards. Otherwise push forwards.

Left and right side flying trimmer

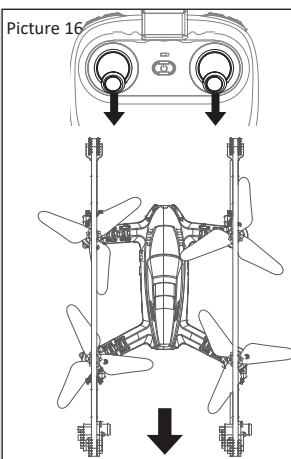
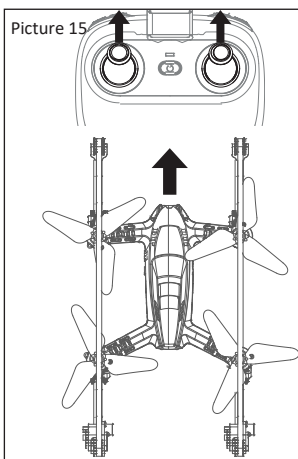
When taking off, if the drone tilts to left, then press down the trimmer button and push the right stick backwards to adjust. Otherwise push forwards.

Left and right turning trimmer

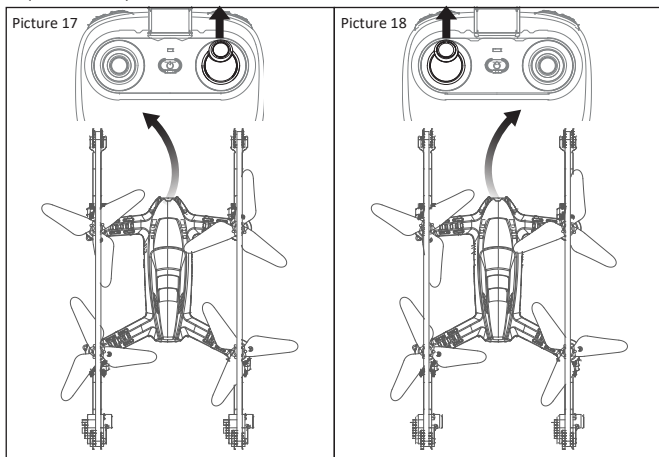
When taking off, if the drone head rotates to left, then press down the trimmer button and push the left stick to right. Otherwise push to left.

Flight Control

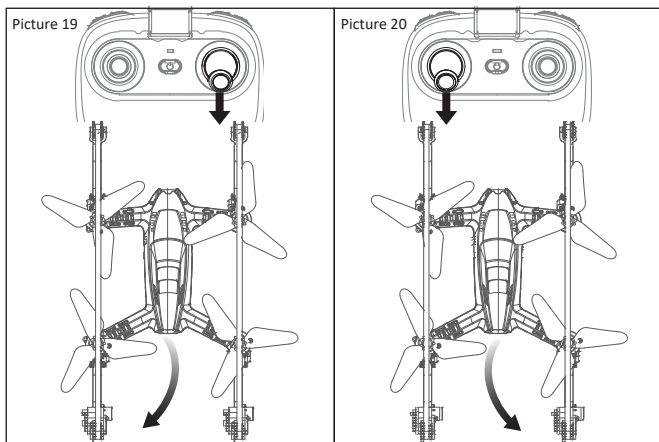
1. Push up the left and right stick at the same time, the tank drone moves forward (Picture 15).
2. Push down the left and right stick simultaneously, the tank drone moves backward (Picture 16).



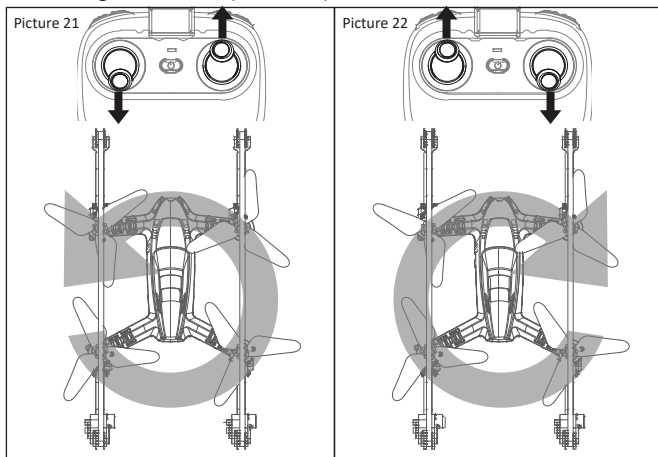
3. Push the right stick upwards, the tank drone starts forward and turns left.
(Picture 17)
4. Push the left stick upwards, the tank drone starts forward and turns right.
(Picture 18)



5. Push the right stick downside, the tank drone runs backward and turns left.
(Picture 19)
6. Push the left stick downside, the tank drone runs backward and turns right.
(Picture 20)



7. Push the left stick downside, and push the right stick upwards, the tank drone makes left turn circle (Picture 21).
8. Push the left stick upwards, and push the right stick downsides, the tank drone makes right turn circle. (Picture 22)



Function Introduction

Altitude Hold Mode

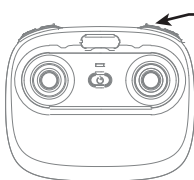
Intelligent flight control system calculates the hovering position, more stable control feature, makes it easier for beginners to control. Release the stick, the drone will keep hovering automatically to enable single hand operation and more clearly aerial photography.

Note: If the propeller is deformed or damaged, Altitude Hold Mode will fail.

If the atmospheric pressure is instability or typhoon weather, Altitude Hold Mode will not work well.

High/low speed mode

Press down the key, it will make the sound of “di”, this indicates to the low speed mode “L”; Press it down again, it makes the sound of ‘di’ twice, that comes to the high speed mode “H”. (The default is low speed)



Hight / Low Speed Mode

1. Low speed mode “Low”:
It's suitable for the beginner to operate it in the state of no wind.
2. High speed mode “High”:
It's suitable for the professionals to experience flight in outdoor wind resistant conditions.

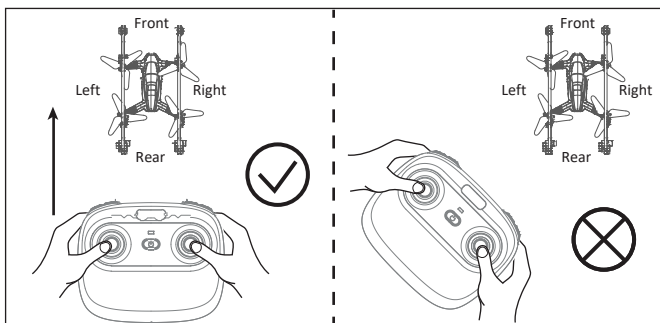
Heading Hold Mode

Drones generally have a front and rear indicated by LED lights or colored propellers. By default, the users are required to tell the front and the rear of the drone when flying. Under heading hold mode, the users can operate the drone without worrying about the orientation (left is left and right is right all the time, regardless of where your drone is pointing at). Heading Hold Mode is designed for beginners and the users who fly the drone in daylight or at a far distance or difficult to identify the drone orientation.

The default setting is NOT Heading hold Mode.

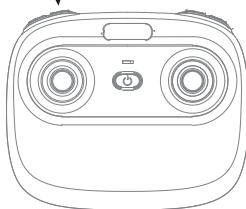
You are allowed to activate the heading hold mode function before taking off or in flight. Fly under heading hold mode, you're required to ensure the drone front direction aligned with your front direction, DO NOT change your direction of your transmitter and keep it fly in front of you all the time. (See the pictures below)

WARNING: DO NOT USE HEADING HOLD MODE BEFORE YOU ARE SURE THAT THE DRONE'S FRONT IS YOUR FRONT. OTHERWISE, IT MIGHT BE OUT OF CONTROL OR FLY AWAY.



* Click the button of headless mode, the front and back lights of the drone flicker alternately, it indicates that it starts the headless mode. Click the button again, the two lights keep long bright, this indicates to exist.

Heading Hold Mode



Low Battery Alarm

When the battery power of the transmitter is quickly exhausted, it will make the sound of “di” “di” “di” constantly to alarm you, now you should land the drone as soon as possible to replace the battery. Or it may be out of control.

While flying, in case that the battery of the drone is quickly exhausted, it will make the sound of “di” “di” to alarm you, Now you must make the return landing.

Out of distance alarm

While flying, when the drone goes out of distance or the flying height, the transmitter will make the sound of “didi” “didi” to alarm you, now you must make the drone back to the controller area as soon as possible, or it may out of control and cause the loss for you.

Stuck Protection

1. When the propeller is stuck and doesn't turn around, the LED light will make fast flicker to start protection automatically. Meanwhile, the motor stops turning.
2. Reset the left control lever to the lowest position and return to the middle position, at this time the LED light keeps bright to unlock protection function automatically, then the aircraft can take off normally.

Know your APP

Download and install APP:Xerall

This software is suitable for mobile phones in the IOS and Android system, please surf the mobile phone application store website to download and install it.

1. For mobile phone with iOS system, please search Xerall in APP Store.
2. For mobile phone with Android system, please search Xerall in Google Play.
3. Scan the QR code on the right or the QR code in the box to download Xerall.
4. For more detailed operation kindly please search the function of “Help” in APP.

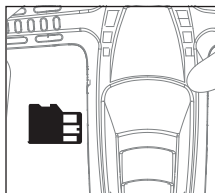


Precaution about taking photos

1. Insert the MicroSD/TF card to the slot, make sure the metal pins facing up

(Picture 21).

(TF card is not included)



Picture 21

2. The aerial photo will be saved in your mobile phone and the TF card, while the video only be saved in the TF card. But you can download the video to the mobile phone or view the video on the phone only when the mobile phone connecting with the drone Wi-Fi and the TF card in the drone.

Tip: Tap the video icon to save a video when ending recording, or the video cannot be saved.

3. Power off the drone first when finish aerial photography. Take out TF card and insert the card to a card reader. Connect the card reader with computer USB port. After a while, view the aerial photography data from "my computer"- "mobile disk".

Tip: Please play the video or photo after coping all aerial photography data to computer and make sure the play software can support AVI format.

Assembly parts list

For convenience, the spare parts are listed for you to choose, which can be purchased from the local seller.

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U49-01

U49-02

U49-03

U49-04

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U49-05

U49-06

U49-07

U49-08

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U49-09

U49-10

U49-11

U49-12

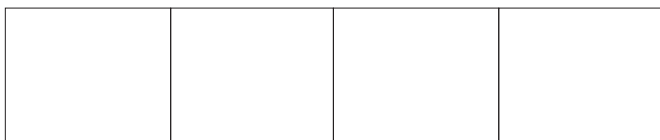
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U49-13

U49-14

U49-15

U49-16

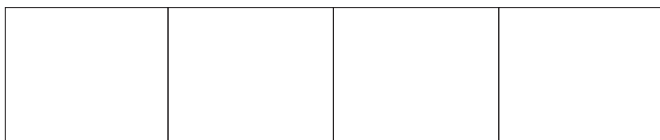


U49-17

U49-18

U49-19

U49-20



U49-21

U49-22

U49-23

U49-24



U49-25

U49-26
smart phone holderU49-27
TransmitterU49-28
VR-2

Important Notice

Our company's products are improving all the time, design and specifications are subject to change without notice.

All the information in this manual has been carefully checked to ensure accuracy, if any printing errors, our company reserve the final interpretation right.

Troubleshooting

No.	Problem	Problem Cause	Solution
1	The indicator lights doesn't work.	1. Low battery.	1. Replace the batteries with the same type.
		2. Mixed battery positive and negative pole.	2. Install refer to the instructions of battery installation.
		3. Poor Contact.	3. Clear out the dirt between the battery and the cells.
2	The remote control can't connect to the drone.	1. The indicator lights don't wor	1. Refer to the solutions above.
		2. There's interference signals nearby.	2. Restart the aircraft and the remote control.
		3. Incorrect operation.	3. Operate it according to the instructions.
		4. Damage caused by repeated heavy impact on remote control or drone	4. To purchase new ones or replace in time from the local distributor.
3	Lack of power or unable to fly.	1. The paddles are severe deformation.	1. Replace the propeller.
		2. Low battery.	2. Charge the battery according to the instruction.
		3. Incorrect installation of propeller.	3. Refer to the instructions, replace the right and new propeller.
4	Can't hang up, stop to one side.	1. The drone is uncalibrated.	1. Refer to the (Calibration description) in the guidebook.
		2. Severe propeller deformation.	2. Replace the new paddles with the same type.
		3. No perpendicular to the deformation of the motor base.	3. Replace the new components of motor seat .
		4. The gyroscope did not reset after a violent impact .	4. Level The drone on the horizontal ground for about 10 seconds or restart the drone, then operate it according to the explanation.
		5. Motor damage.	5. refer to the instruction, replace the right motor.
		6. No proofreading compass.	6. Re proofreading the compass.
5	The indicator lights don't work.	1. Low battery.	1. Charge the battery refer to the instruction.
		2. Battery exceeds used or power discharge protection.	2. Purchase new batteries from the local distributor or charge the battery according to the procedures.
		3. Poor contact.	3. Unplug the power plug and insert it again correctly.
6	Can't see the image.	1. There's interference signals nearby.	1. Pull out the line and insert it again.
		2. Video damage.	2. Purchase a new one from the local distributor.
7	The mobile phone mode is hard to control.	Not used to flying.	Read carefully the brief instruction about the mobile control function, and learn the right ways of operation then practise more.

FCC 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.

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

FCC Notice:

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

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.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition with out restriction.



MADE IN CHINA