



U52G Operation Guidance

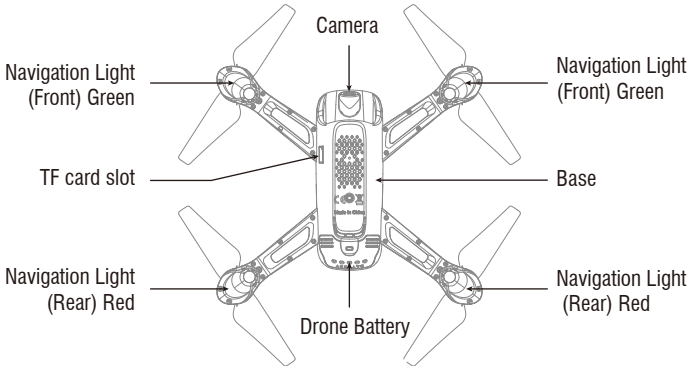
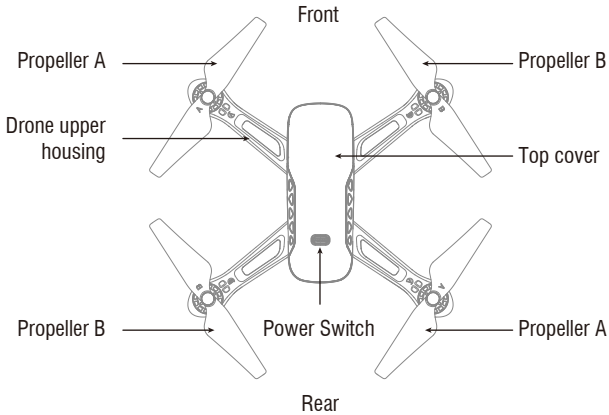
This product supports GPS positioning and is recommended for outdoor flight!!

This wifi camera pinpoint is 5G, please confirm whether the phone is supported.

- ▲ This product is suitable for users over 14 years old.
- ▲ Stay away from the rotating propeller
- ▲ Read the <important statement and safety guidelines > carefully.

Ready Before Take Off

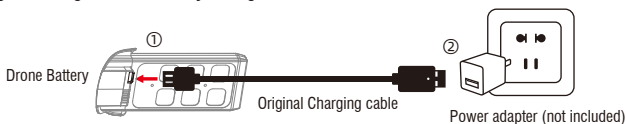
Drone Preparation



Battery Charge

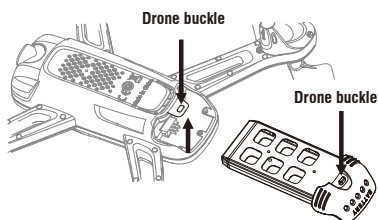
Battery power is insufficient in the original plant. It must be charged saturated before it can be used.

Connect the original charging cable with the drone battery, and then connect other USB charging port. The red USB indicator light keeps bright when charging and the light turns green when fully charged.



▲ Only use the original charging line; suggest select Adapters with output current of 5V 2A .

Battery Installation



Installation:

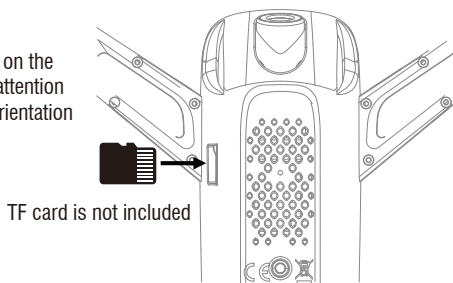
Put the battery into the battery compartment and push it into position.

Disassembly:

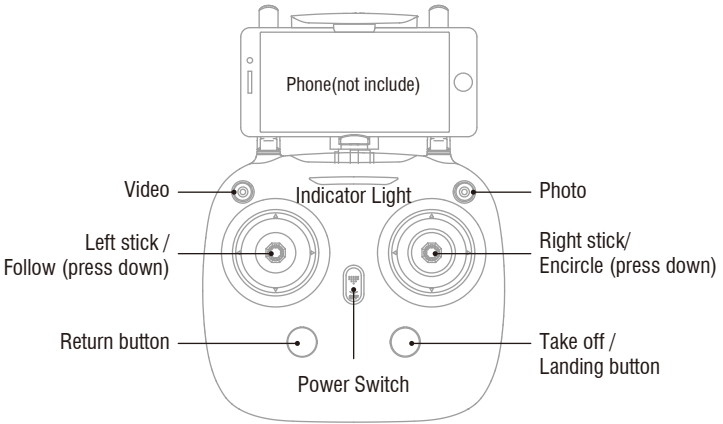
you need to squeeze up and down of the battery buckle and then put out the battery box is fine.

Installation of TF Card (Suitable for 1080P only)

Insert the TF card into the slot on the side of the fuselage, and pay attention to the metal contact surface orientation of the TF card.

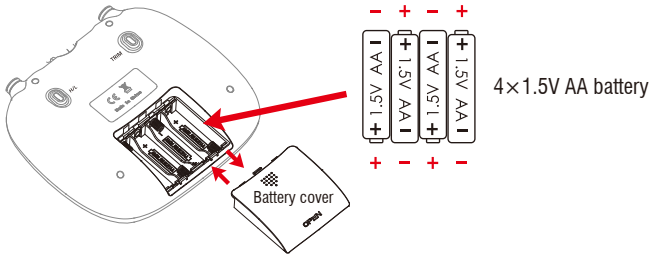


Transmitter Preparation

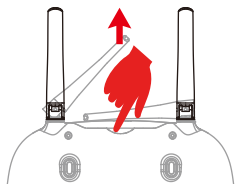


Battery Installation

Open the battery cover of the remote controller and place the same type of battery with saturated capacity according to the '+'-'electrode indication in the battery cell (battery needs to be purchased separately).

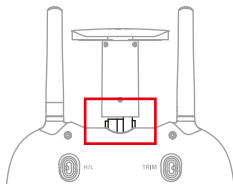


Mobile Phone Installation



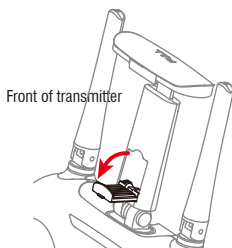
Back of transmitter

- ① Straighten the antenna. Gently pull up the clip from the notch.



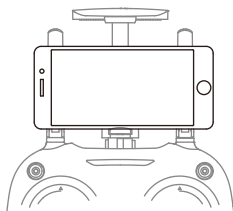
Back of transmitter

- ② Pull to the bottom and stop the metal shaft.



Front of transmitter

- ③ Open the clip of mobile phone.



Front of transmitter

- ④ Place the phone in the upper and lower clamps, and the clamp will automatically clamp the mobile phone. Pay attention to don't clip the buttons on the side of the phone.

Flight Operations

Mobile phone connect with Drone

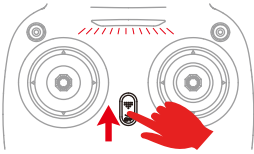
Download and install APP: UDIGPS

This software is suitable for mobile phones in the IOS and Android system. For detailed operation, please check the system "HELP" of APP.



Transmitter connect with Drone

Frequency Pairing

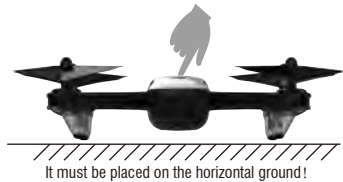


① Turn on the power, the transmitter indicator light will flash quickly.



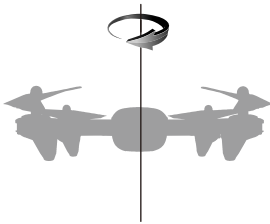
② Pull the left stick to the lowest position and let go, the indicator light changed to slow flash. It indicates the transmitter enters the frequency state.

③ Press the key of power for two seconds to start the drone, it makes the right frequency successfully. Then the left navigation light keeps shiny, while the right navigation light is off. Thus shows that it enters the state of compass horizontal calibration.

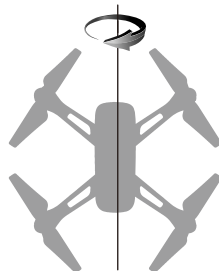


Compass calibration

Rotate the drone horizontally until the transmitter will sound "di...", horizontal correction to complete. When the left navigation light turns to long light and the right navigation light flashes, enter vertical correction. Rotate the drone vertically until the transmitter will sound "di...", vertical correction over. The four navigation lights are spinning and flashing.



Horizontal Correction



Vertical correction

Tips: It's a must to have the right compass adjustment first each time you start the drone, or it can't work normally.

Calibration



After finishing the compass adjusted, push the right stick to the bottom right 45 degrees, the Navigation light flash and when you release it, this means the gyroscope is calibrated.

Tips: When the drone doesn't appear to use the trim correction flight status, or being hit hard (or falling abnormally). thus cause the difficulties in controlling. Now frequency making and adjustment are needed again, drone should be placed on horizontal ground.

GPS signal search

After the frequency matching is successful, the drone automatically searches for GPS signals. When the left blue indicator light of the transmitter changes from flashing to long bright, indicating that the GPS connection is successful. But if you don't connect the GPS, the flight height defaults to about 3 meters.

Unlocking the drone

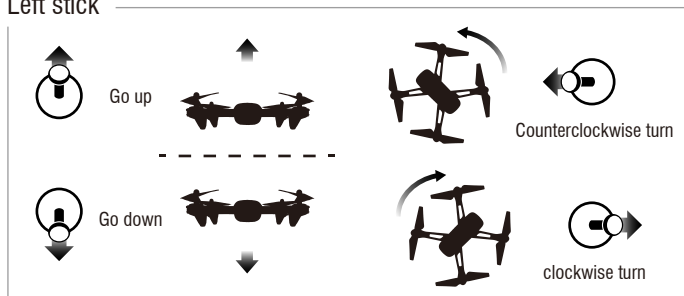


Push the left and right stick inward to the 45 degree angle simultaneously. On standby drone, motor rotation, drone Unlocked. When the drone is not take off, the motor stops rotating and the drone is locked.

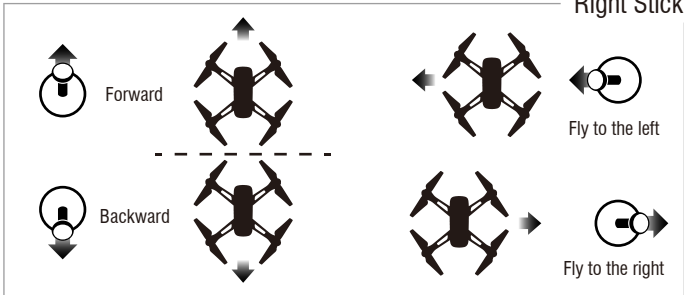
The drone can only take off when the motor is unlocked.

Control stick operation

Left stick

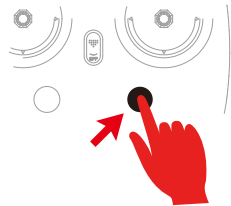


Right Stick



Take off

After unlocking the motor, press the "take off" button, and the drone will automatically rise and hover at a height of about 1.2 meters .



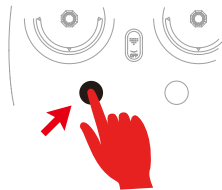
Landing

During the flight, press the "landing" button, the transmitter make a sound of "di" and the drone slowly land until landing.

Notice : Don't operate the left stick during landing, otherwise the current command will automatically fail.

Automatic return

During the flight, press the "return " button, and the transmitter will sound "di", and the drone will automatically return to the take off point. (during returning, the transmitter will continuously sound "di". To stop homing, just press this button again.)



During the automatic return, the remote stick is locked. When the drone returns to the take off point and aligns with the take off direction, the remote stick is automatically unlocked.

Following mode

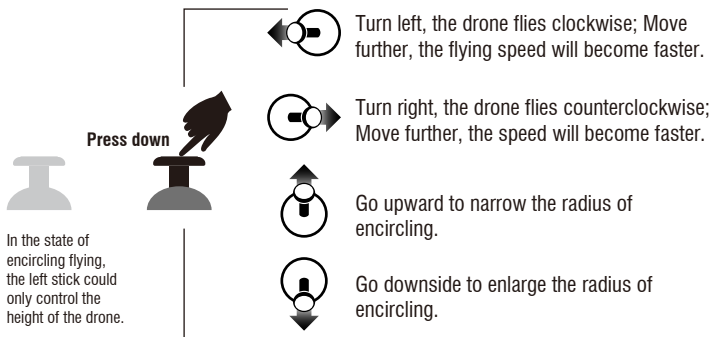
While flying, press left stick down, the transmitter sounds “di”, drone enters the function of following. Now it can be controlled by the user.

The function is standard by the mobile phone APP signal, so it's a must to make the drone and APP connected normally, turn on the mobile location service at the same time, otherwise this function is invalid.



Encircling flight

In flight, press the right stick down, and the transmitter will make the sound of "di". Then it goes to the function of encircling flight. The drone will fly to a default radius then it waits for the direction controlled by the user. Adjust the speed and direction of the drone by manipulating the right stick. It is the minimum radius of the default radius acquiescently, so drone flies only in the sub range.



Turn left, the drone flies clockwise; Move further, the flying speed will become faster.

Turn right, the drone flies counterclockwise; Move further, the speed will become faster.

Go upward to narrow the radius of encircling.

Go downside to enlarge the radius of encircling.

Turn on / turn off GPS signal

GPS defaults to be on.

Turn off: Press “H/L” button for about 2 seconds, the transmitter will sound “di”, the blue indicator of the transmitter is out to indicate that the function of GPS is off. (When the GPS is connected)

Turn on: Repeat above action after five seconds, you can restart the function of GPS.



Tip:

The function is suitable for using in the situation of weak GPS signal or indoors; When the function of GPS is off, so is the fixed function. The function can only be used when the motor is locked.

Speed mode switch

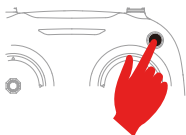
Press the "H/L" button, the transmitter will sound "di.di.di", to enter High Speed Mode "H".
Press again, the transmitter will sound "di", to enter Low Speed Mode "L".
Press again, the transmitter will sound "di.di", to enter Middle Speed Mode "M".



Back of transmitter

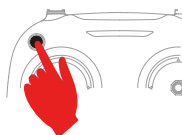
Low speed: suitable for beginners to practice without wind.
Medium speed: suitable for skilled operator operating in light breeze.
High speed: suitable for professional operation in outdoor wind resistance.

Photo



Short press "photo" once to take a picture.
When taking photos, the transmitter will sound "di" .

Video



Long press the "video" button for 1 second to enter the recording state, to repeat this action to stop recording and save video.
When taking video, the transmitter will sound "di..".

Notes for Filming

- ① Photos taken will be saved to mobile picture library and drone TF card; Video can be saved in TF card first, which can be downloaded to mobile picture library for viewing. Please download video according to APP prompt. When downloading, maintain the normal connection between the mobile phone and the flyer, and the TF card is in the card slot.
- ② The APP must be authorized to read the phone gallery to view the aerial photos.
- ③ Turn off the power supply of the drone before taking out the TF card.
- ④ When aerial video is read by computer, it must have corresponding playback software.

Intelligent Hover

The intelligent flight control system calculates the levitation height and the GPS positioning coordinate axis, so that the aircraft can stay in the air better. The drone is like a camera fixed in the air, Aerial photography and control are very convenient.

Notice: Drone must be connected to GPS properly in order to give full play to fixed-point hovering function. Atmospheric pressure or wind force affects hovering stability.

Low Battery Alarm

Transmitter: When the transmitter is in low battery, the transmitter will continue to sound "di.di.di." to remind the user to return home and replace the batteries of the transmitter as soon as possible.

Automatic Return

When the drone is in low battery, the transmitter will continue to sound "di.di." to remind the user. After alarming, the drone automatically returned to the take-off point.

Notice: After low-battery alarm, the drone will return home. Meanwhile, its controllable range will be reached to the 20 meter radius.

Out of Range Alarm

When the drone is out of the remote control distance, the transmitter will continue to sound "didi...didi...didi" to alarm the user to return the drone immediately.

Stuck Protection

- ① When the propellers get stuck, then activate stuck protection function and the motors stop running.
- ② Pull down the left stick to the lowest position and then go back to the center, stuck protection will be released and the drone can fly again.

Out of Control Protection

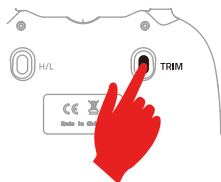
Out of control protection refers to the flight control system automatically controls the drone to fly back to the return point after receiving the remote control signal (ie, out of control).

The drone does not have the function of avoiding obstacles during the uncontrolled return flight. The user can set the return altitude value to avoid obstacles on the way back.

Possibility of entry into runaway protection mode

- * The transmitter is off.
- * Flight distance exceeds the effective distance of remote control signal transmission.
- * There is an obstacle between the transmitter and the drone.
- * Transmitter signal is disturbed.

Flying Trimmer



Back of transmitter

Forward / Backward Trimmer

When take off, if the drone tilts forward , press the trimmer button, and push the right stick down. Otherwise push it up.

Left / Right Tilts Trimmer

When take of, if the drone tilts to the left, press the trimmer button, and push the right stick to the right. Otherwise push it to the left.

Left / Right Rotates Trimmer

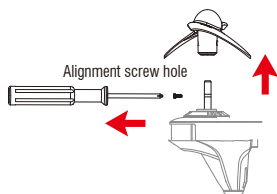
When flying, if the drone head rotates to the left, press the trimmer button, and push left stick to right. Otherwise please push it to the left.

Attention

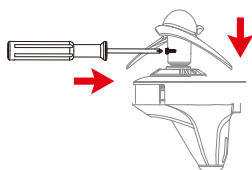
- ① Switching sequence. At first, turn on the power of the transmitter, then turn on the power of the drone. After the end, turn off the power of the drone first, and then turn off the power of the transmitter.
- ② Improper operation caused the crash. It is necessary to check and confirm the connection of the motor , propeller or battery of the drone and the damage degree, so that the drone can fly again. If there is damaged, please replace the new accessories or prone to accident.

Parts Replacement

Propeller Installation

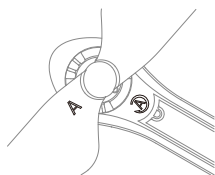


Disassembly: Turn out the screw, hold the propeller and pull out the propeller upward in the direction of the vertical motor.



Installation: The center hole of the propeller is aligned with the motor shaft and pressed down in the direction perpendicular to the motor. The screw hole of the propeller corresponds to the screw hole on the motor shaft. Tighten the screw.

Note: There are marked "A" and "B" on the propeller. Please carefully check the letters "A" and "B" on the arm of the drone. The two letters must correspond to each other during installation. If not, then the drone can not work normally.



Drone 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.



Parameter

Drone

Weight	180g
Size	280mm (Diagonal motor shaft spacing)
Propeller radius	73mm
Flight altitude limit	150m
Maximum flight time	12 minutes (calm)
Maximum wind speed	Level 2
Maximum tilt angle	35°
Operating Temperature Range	0°C to 40°C
GNSS	GPS / GLONASS
Operating frequency	2.4Ghz / 5G wifi

Drone Battery

Capacity	1500mAh
Voltage	3.7V
Type of battery	LiPo
Charging Temperature Range	5°C to 40°C
Charging Time	About 200 minute.

APP

App Name	UDIGPS
Image transmission system	WiFi 5 GHz
Real time image transmission	720 p@20 fps
Operation System	This software is suitable for mobile phones in the IOS 9.0 or later and Android 4.4 or later system.

Camera

Image resolution	1920×1080p 1280×720p
Static Photography Mode	Single shoot
Video Resolution	1920×1080p 1280×720p
Image mode	RGB Mode
Frame Rate	25
File System Support	FAT 32
Image format	JPEG format
Video format	MP4, H.264
TF Card	Support 64G. ≥10 level Micro TF Card.
Operation Temperature	0°C - 40°C
Transmitter	
Operation Frequency	2.4Ghz
Maximum transmission distance	150m (no interference and barrier-free outside)
Mobile device bracket	Suitable for smartphones
Operating Temperature	0°C to 40°C
Battery	4*1.5 AA
Charge	
Input	5V ===2A

Tips: the above data are the test data of UDIRC toy lab, for reference only.

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 controller Indicator light is off.	Low battery.	Replace the controller battery.
		The batteries are incorrectly.	Install the batteries following the polarity indicators.
		The batteries are incorrectly positioned.	Clean the dirt between the battery and the battery contacts.
2	Failed to pair the drone with the controller.	Indicator light is off.	The same as above.
		There is an interfering signal nearby.	Restart the drone and power on the controller.
		Mis-operation.	Operate the drone step by step in accordance with the user manual.
		The electronic component is damaged for fiercely crash.	To buy spare parts from local seller and replace damaged parts.
3	The drone is under-powered or can not fly.	The propeller is seriously deformed.	Replace the propeller.
		Low battery.	Charge the drone battery.
		Incorrect installation of propeller.	Install the propeller in accordance with the user manual.
4	The drone could not hover and tilts to one side.	Improper Calibration.	Please refer to the Calibration.
		The propeller is seriously.	Replace the propeller.
		The motor holder is deformed after violent crash.	Replace the motor holder parts.
		The gyroscope did not reset after a serious crash.	Put the drone on the flat ground for about 10 minutes or restart the drone to calibrate again.
		Motor is damaged.	Replace the motor.
		No proofreading compass	Reproofreading the compass.
5	The drone indicator light is off.	Low battery.	Recharge the drone battery.
		The battery is expired or over discharge protection.	Buy a new battery from local seller to replace the battery or charge the battery.
		Poor contact.	Connect and disconnect the battery.
6	Could not see the picture.	There is an interfering signal nearby.	Practice and read the cellphone controlling instruction carefully.
		Camera is damaged.	Replace Camera.
7	Hard to control by cellphone.	Not experienced enough.	Practice and read the cellphone controlling instruction carefully.
8	Can't altitude hold.	The propeller is seriously.	Replace propeller.
		Motor is damaged	Replace the motor.
		Atmospheric pressure is not stable.	Refer to "Altitude Hold Mode" instruction.
9	Can't position hold.	Whether the GPS has connected or not.	Search again to connect the GPS signal.
10	Searched but could not find the GPS signal.	GPS module is damaged.	Please replace a new one.
		GPS module plug is loose.	Please check to see if it's connected normally.

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