JJRC

AGE 14+

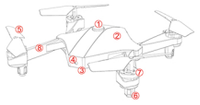
DIAMAN

A NEW GENERATION OF FOLDABLE DRONE

*Please read this manual carefully before operation and keep it properly for future reference.

KNOW YOUR DIAMAN

With 2.4G frequency band for long remote control distance, DIAMAN allows multipleflights at the same time without any interference. User can fly it with remote control, or control it to fly, roll, hover and take photos/videos with APP and WiFi connection on smart phone.



① Power
② Upper casing
③ Lower casing
④ Camera
⑤ Propeller
⑥ Motor
⑦ Gear
⑧ Cover of arm

Accessories

DIAMAN x1
(Battery Included)

Backup propellers x4

Remote control x1

USB charger x1

Flat screwdriver x1

User manual x1

Notes:

Please check the number of accessories carefully (as shown above). Please provide proof of purchase and contact the store for replacement if any missing parts.

PRE-FLIGHT PREPARATION

1.Flight Environment

Indoor: Spacious spaces away from barriers, crowds or pets are preferred.

Outdoor: Sunny, windless and breezy weathers are preferred.

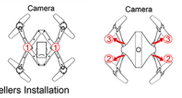
Please keep the drone in sight during the flight and keep it away from barriers, high-tension cables,trees and people.

Do not fly in extreme environment, such as hotness, coldness, strong wind or heavy rain.

2.Unfold Crankshafts

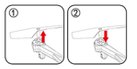
Unfolding Sequence:
①Press the button at the bottom of drone before unfolding the crankshafts.
②Unfold the rear crankshafts.
③Unfold the front crankshafts.(Near the camera)

Fold the crankshafts in reverse order.



3.Propellers Installation

A corresponds to A
B corresponds to B



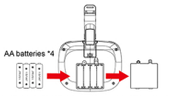
①Remove the screws and pull out the propellers.
②Install the propellers correspondingly and screw on.

Notes:

When installing or dismantling the propeller, please do not exert force on the propeller to avoid distortion.

Battery Assembling and Charging

1.Battery Assembling for Remote Control:

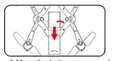


Open the cover of battery compartment, insert four AA batteries (not included)

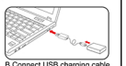
Notes:

1. Ensure the polarity symbols on the batteries match the symbols inside the battery compartment.
2. Do not mix new and old batteries.
3. Do not mix different types of batteries.

2.Battery Charging for Drone:



A.Move the battery cover, and take out the battery.



B.Connect USB charging cable with the charging interface of the lithium battery.

Notes:

LED lights on when charging, LED lights off when finish charging . Charging time is about 60 mins.

▲ Battery Instructions

- There is a certain risk when using lithium battery. It may cause fire, body injury or property loss. Users must be aware of the risks and take full responsibility of using battery improperly.
- If battery leakage occurs, please avoid contacting your eyes and skin with electrolyte. Once it happens, please wash your eyes with cleanwater and seek medical care immediately.
- Please remove the plug immediately if you sense any peculiar smell, noise or smog.

Battery Charging

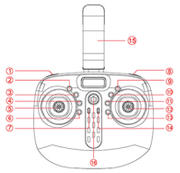
- Please use the charger from original factory to ensure your safeusage.
- Do not charge dilatant or outworn battery.
- Do not over charge battery. Please unplug the charger once fully charged.
- Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects. Please always keep an eye on the battery when charging.
- Do not charge battery which not cool down yet.
- The charging temperature should be between 0℃to 40℃.

Battery Recycling

- Do not dispose the battery as daily rubbish. Please familiarize yourself with the local garbage disposal method and dispose it according to the special requirement.

Know Your Remote Control

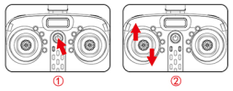
1.Operation Board of Remote Control



① High/Low Speed
② Take Photo
③ Take Video
④ One-key Start/ One-key Landing
⑤ Left Joystick (throttle)
⑥ Emergency Stop
⑦ Headless Mode
⑧ Flips&Rolls
⑨ Forward Fine-tuning
⑩ Backward Fine-tuning
⑪ Left Sideward Fine-tuning
⑫ Right Joystick (direction)
⑬ Right Sideward Fine-tuning
⑭ Return to Home
⑮ Phone Holder
⑯ Power

2.Pairing Remote Control With Drone

①Turn on the power of the drone; put the drone on plain ground; check whether the indicator lights of remote control and LED lights of drone flash.
②Push the accelerator joystick to the top and then pull back to the bottom. After thesounds of Di-Di, the flash of indicator lights of remote control and LED lights of drone will turn to constant lights, which means the pairing completes.



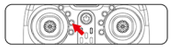
3.Calibration of Remote Control

Calibrate the drone when it cannot vertically ascend. Firstly push the accelerator joystick and steering joystick to the bottom outer conners. Then release all the buttons till the flash of the drone's indicator light turn to constant light. Thus the calibration completes. Ensure the whole process of calibration is operated under horizontal and steady circumstances.

FLY WITH REMOTE CONTROL

1.One-key Start

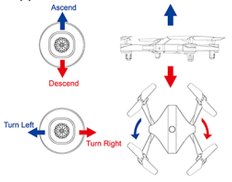
Press "One-key Start" to activate the motor and propellers and then push the throttle to take off.



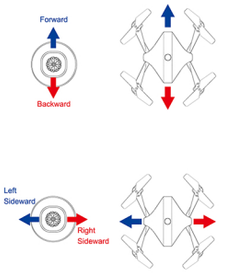
2.Flying

The left joystick is used to control flying height and left and right turning, while the right joystick is used to control forward, backward and sideward flights.

Left joystick



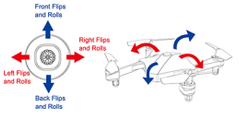
Right joystick



Flips and Rolls

Till the drone flies over 3 meter, press the button of flips and rolls and move the right joystick to certain direction to finalize flips and rolls.

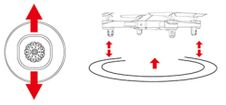
Right Joystick



Hovering

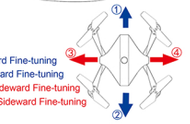
Operate the left joystick to make the drone ascend and then release the joystick. The drone will hover at the height you release the joystick.

Left Joystick



3.Fine-tuning

Gradually push the accelerator joystick to make the drone ascend. Fine-tune the direction when the drone rolls or deviates to one direction.



①Forward Fine-tuning
②Backward Fine-tuning
③Left Sideward Fine-tuning
④Right Sideward Fine-tuning

Notes:

When the drone is within 30cm from the ground, it will be affected by the blade vortex made by itself and become unstable. This is "ground effect". The lighter the drone is, the greater the effect will be.

KNOW YOUR REMOTE CONTROL APP

1.Wifi Connection

①Use your phone to scan the QR code, download and install the control software: 'JJRC'. Android, Android(Google Play) and iOS are all supported.

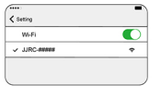
Android

Android (Google Play)

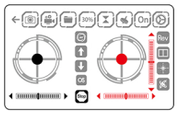
iOS

JJRC

②Turn on the drone and the lights will flash;turn on your mobile phone to connect WIFI (JJRC-#####), as shown in figure.



2.APP Interface Instruction

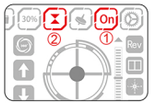


Return
Photo
Video
Document (album/video)
Speed Control: 30%/60%/100%
Altitude Hold
Gravity Sensor Control
Show/Hide Steering Wheel
More Settings
360°Flips&Rolls
One-key Start
One-key Landing
Camera Reverse
3D Display
Headless Mode
One-key Reset
Emergency Stop
Flight Planning
Left Joystick (throttle)
Right Joystick (rudder)
Left/Right Rotation Fine-tuning
Left/Right Side Fly Fine-tuning
Forward/Backward Fine-tuning

Fly With APP

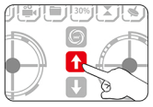
1.Remote Control Frequency Pairing

Click ①"ON", then click ② "Altitude Hold" for remote control frequency pairing.



2.One-Key Start

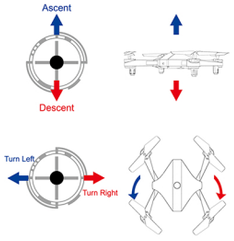
Click "One-key Start" to activate the motor and propellers.



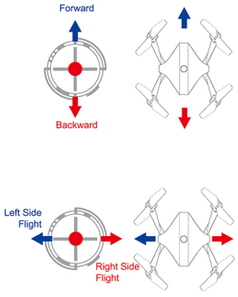
3.Basic Flight

Use the left joystick to control the flight altitude and turn left/right, and the right joystick to control the forward, backward, left and right side flight directions.

Left Joystick

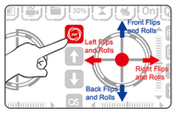


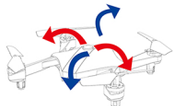
Right Joystick



Flips&Rolls

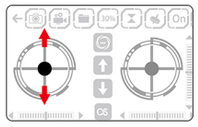
When the drone is reaching more than 3 meters high, click "flips and rolls" and move the right joystick to a certain direction, the drone will rotate in that direction.

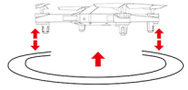




Hover

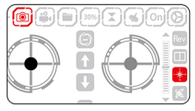
When you release the left joystick (throttle) after the ascent/descent action, the drone will hover at a certain height.





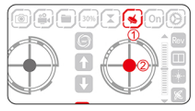
4.Take Selfies

In the Altitude Hold mode, you can control the drone to turn the camera back to itself, then click the camera button on the screen to take selfies.



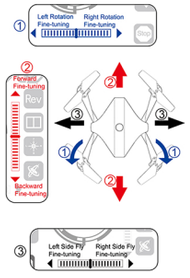
5.Gravity Sensor Control

Click to enter Gravity Sensor Control, put your right hand thumb on the right joystick, and move the phone towards any direction for remote control.



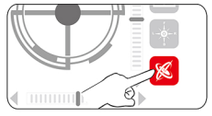
6.Fine-Tunning

If the drone rotates or yaws, click the fine-tunning to the reverse direction of yawing till the yaw is adjusted and the drone stays oriented at the control.



7.One-Key Reset

When deviating from course due to crash, please control the drone back to a horizontal plane and click "One-key reset" for gyro calibration and take-off again.

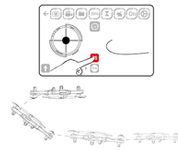


Notes:

When the drone is within 30cm from the ground, it will be affected by the blade vortex made by itself and become unstable. This is "ground effect".The lighter the drone is,the greater the effect will be.

8.Flight Planning

When the drone takes off, click "flight planning" button to activate flight path mode. Draw a path in the blank, and the drone would perform the flight path at the altitude as you pilot and fly on its own.



9.Beauty Mode

The built-in beauty mode on camera can automatically beautify images to deliver improved and stunning images with outstanding qualities.

Before

After

FAQ

PROBLEMS	CAUSES	SOLUTIONS
Control failure	Not connect with the drone battery.	Connect the brone battery in right way.
	Too strong wind force.	Do not fly in windy days. The performance and the control of the drone will be affected by the strong winds.
Fail to ascend	The rotation speed of main blades is too slow.	Push up the throttle joystick.
	The battery of the drone is not fully charged.	Please full charge the drone.
Landing too soon	The throttle stick is pulled down too fast.	Pull down the throttle stick slowly to perform a smooth landing.
Out of control	Beyond the effective controlling distance.	Ensure that the flying distance is within 30 meters.

JJRC TECHNICAL SUPPORT

Dear Customer,

Thank you for choosing JJRC product. Please visit JJRC official website for more FAQ and information if there is any problem of using our product.

-Product Operation: Please visit JJRC College for tutorial video or user manual.
-Product Features: Please refer to product page description or product brochure.
-After-sale Service: Please refer to conditions and terms of after-sale service.
The final interpretation right belongs to all JJRC.

Should you have any further questions, please visit JJRC Online Feedback and leave your message.

Thank you again for your support!

JIANJIAN TECHNOLOGY CO.,LTD.
www.jjrc-tech.com