AGE 14+

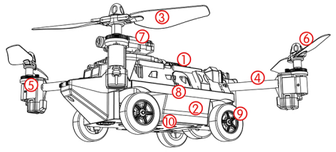
EXCELSIOR

DRONE X TANK 2 IN 1

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

Know EXCELSIOR

EXCELSIOR drone uses 2.4G frequency, which enables multiple people to simultaneously operate without interference, and can be controlled through a mobile APP via Wi-fi connection to achieve these functions of flight, traveling, hovering and air/ground switch etc.



① Upper casing
② Lower casing
③ Blade
④ Horn
⑤ Motor
⑥ Gear
⑦ Turret
⑧ Circuit board
⑨ Wheel
⑩ Battery

IN THE BOX

EXCELSIOR x1
(Battery Included)

Ax1，Bx1
(Complimentary Blades Included)

Remote Control x1

USB x1

User Manual x1

Notes:

Please check the list of accessories. If you find any component missing, please contact the retailer for exchange with your receipt.

PRE-FLIGHT PREPARATIONS

1.Flight Environment

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

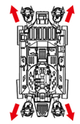
Outdoor: Sunny, windless and breezy weathers are preferred.

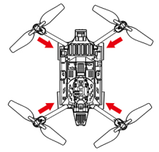
Do not use in extreme weathers.

Ensure the drone is within your sight and the outdoor surroundings are spacious and open, which are away from tall buildings, signal towers, electricity pylons and crowds.

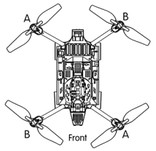
2.Unfold/ fold Wings

Unfold wings: Unfold the wings in lines with the arrows'instructions, and fold the wings reversely.

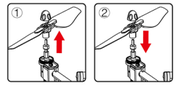




3. Assembling Blades



Correspond A with A, and B with B.



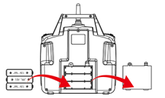
①Remove electroplated part before taking out the blade.
②Correspond the new blade with the hex nuts of the crankshaft, and fix the electroplated part.

Notes:

Please handle with care when assembling and/ or disassembling the blades in case of any deformation.

BATTERY ASSEMBLING AND CHARGING

1.Battery Assembling for Remote Control:



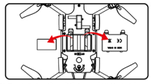
AA batteries x3
(not included)

Open the cover of battery compartment, insert 3 triple-A batteries (optional) and ensure the polarity symbols on the batteries match the symbols inside the battery compartment.

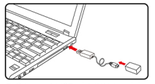
Notes:

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.Remove the lithium battery from the bottom of the drone.



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

Notes:

During charging, one of the two LED lights flashes and the other lights up constantly. When charging cycle completes, which lasts about 180 to 240 minutes, two LED lights turn to constant lights.

▲ Attention to Battery Usage

- 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 of using this product. Manufacturers, retailers and dealers do not bear any responsibility once accidents occur.
- If battery leakage occurs, please avoid contacting your eyes and skin with electrolyte. Once it happens, please wash your eyes with clean water and seek medical care immediately.Please remove the plug immediately if you sense any peculiar smell, noise or smog.

Charging

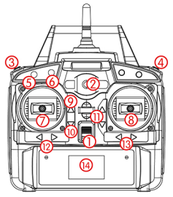
- Please use the charger from original factory to ensure your safe usage.
- Do not charge the dilatant or outworn battery.
- Do not overcharge the battery. Please pull out the charger once the battery is fully charged.
- Do not charge the battery next to inflammables, such as carpet, timber floor or wood furniture or on the surface of electro-conductive objects. Please always keep an eye on the battery when charging.
- Do not charge the battery next to inflammables or on the surface of electro-conductive objects. When charging please observe the battery at all times.
- Do not charge batteries which is not cool down yet.
- The charging temperature should be between 0℃to 40℃.

Recycle

- This equipment is composed of electronic elements and batteries. For electronics garbage, please dispose them according to the special requirements.

Know the Remote Control

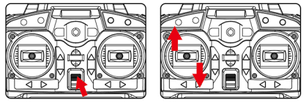
1.Operation Board of the Remote Control



① Power
② Power light
③ Short press for speed switch, Long press for air/ ground switch
④ Turret lights switch
⑤ Emergency stop
⑥ Descend
⑦ Left joystick (Accelerator)
⑧ Right joystick (Left/ right/ forward/ backward)
⑨ Headless mode
⑩ Return to home
⑪ Forward/ Backward fine-tuning
⑫ Turret turning (For WIFI version)
⑬ Left/ right fine-tuning
⑭ LCD

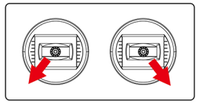
2.Pairing Remote Control with Drone

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 the sounds 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 left bottom corner. 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.

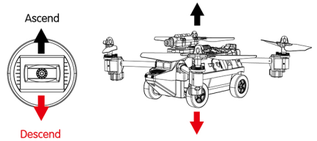


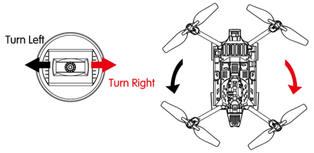
Flights

1.Flying

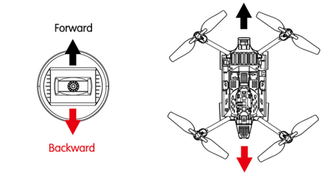
The left joystick is used to control flying height and left and right turning, while the right joystick is used to control forward, backward and sideward flights.

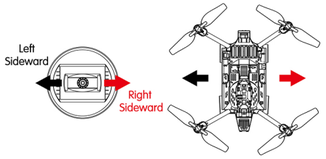
Left Joystick





Right Joystick

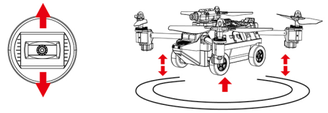




Hovering

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



2.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.

Notes:

"Ground effect" means when the drone flies very close to the ground, the effect of ground can result in "floating" (when landing) or temporarily "stall speed" (when taking off). When the drone flies at a ground level approximately below 30 cm from the ground, the vortex will influence the steadiness of the flight, causing ground effect.

Keep Calm when Dealing with Problems

PROBLEMS	CAUSES	SOLUTIONS
Remote Control fails.	The battery of the drone might disconnect.	Reassure the drone's battery is well connected.
	The drone might fly in strong winds.	Strong winds might prohibit the flight.
The drone fails to ascend.	The rotor might turn slowly.	Push the accelerator to speed up.
	The drone might not be fully charged.	Fully charge the drone.
The drone ascends too fast.	The accelerator might be pulled back too fast.	Gradually pull back the accelerator to ensure steady landing.
Out of control.	The drone might fly out of the effective control distance.	Ensure operation within the controllable distance: remote control of 100 meters and WIFI control of 40-50 meters.

Technical Support

Dear JJRC Users,

Thanks for purchasing JJRC products. Should you have any problems in using our products, please see more information at our official website.

If you have problems at:

Operation: Please watch tutorial videos or read user manuals.

Function: Please watch product videos, go through product details on product pages or user manuals.

Service: Please read the customer service policies.

If you still have questions after trying the above solutions, please leave a message on our website with descriptions of your unsolved problems. We will try to reply to you as soon as possible.

Thanks again for your support!

JIANJIAN TECHNOLOGY CO., LTD.

www.jjrc-tech.com