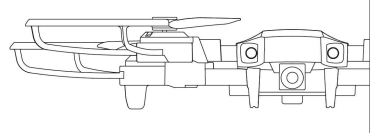
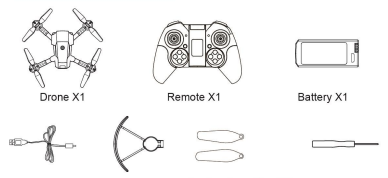
X-PACK 10 Operation Manual

(Suitable for wide indoor environments operation)

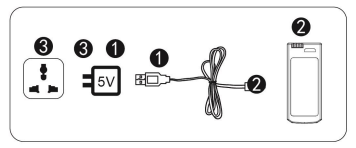


Suitable for 14 years old and above

1. Package Contents



2.Charging

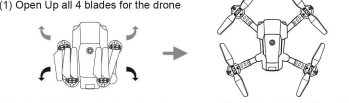


Charging Guide for Drone
Connect the battery with USB cable, if battery indicator OFF, means in charging status. The battery indicator ON, means charging completed.

Note : Please full charge the battery before flying.

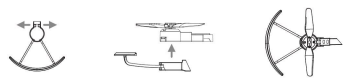
3.Install

(1) Open Up all 4 blades for the drone



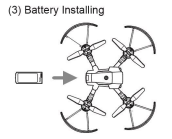
This aircraft is folding structure, please do open up all four blades before taking off.

(2) Blades Protector Installing



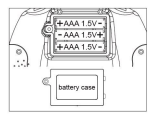
Expand the buckle of the protector, and install it onto the drone wings.

(3) Battery Installing



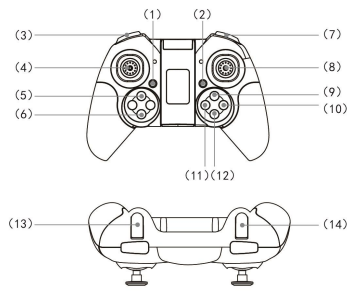
1. Insert the battery into specified position.
2. To disassembly, pull the battery back to take it out.

Remote Controller:



Insert 3xAAA battery into specified position.

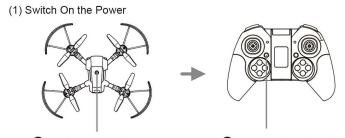
4. Remote Controller



(1) Power switch
(2) Calibration
(3) Speed switch
(4) Left stick (Altitude Control / Turn L/R)
(5) One key take off / landing
(6) Return
(7) Headless Mode
(8) Right Stick (Movement Control)
(9) Forward trimming
(10) Right trimming
(11) Left trimming
(12) Backward Trimming
(13) Take Photos
(14) Video

5. How To Fly

(1) Switch On the Power



1. First power on the drone (Keep pressing for 2-sec and place it on a flat ground or surface.)
2. Power on the Remote

(2) Frequency matching



After Powered On the drone, both indicator lights on the drone and Remote will flash, then push the left throttle to the top, then down to the lowest, after 2 secs, the indicators will go steady, that means the frequency succeed matching.

(3) Compasses Calibration



Press the Calibration button for the compasses calibration. (The aircraft would fly more stable if operate this step before first time unlocking blades, no neccessary to operate this step everytime take-off)

(4) Unlock the drone for taking-off



After frequency matched, push the left stick to the top to unlock the motors, then the propellers of the drone start rotating.

(5) Take off / Landing



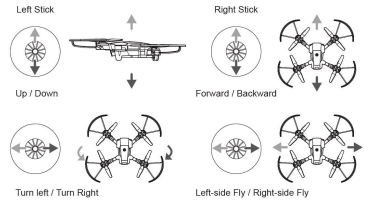
After unlock the motors, press "one key take off"(or push up the throttle directly) , to fly. Press "one key landing"(or keep pushing down the throttle directly), to land.



Emergency Stop

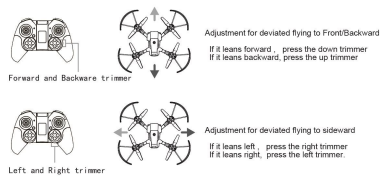
In case of emergency status, push the Left stick to the right corner, meanwhile push the Right stick to the left corner at the same time,drone will immediately stop functions and drop off.

6.Using the Remote Controller



7. Aircraft Functions

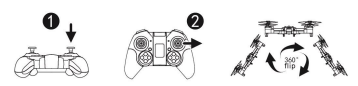
TRIMMING ON THE FLYING ACTIONS



Adjustment for deviated flying to Front/Backward
If it leans forward , press the down trimmer
If it leans backward, press the up trimmer

Adjustment for deviated flying to sideward
If it leans left , press the right trimmer
If it leans right, press the left trimmer.

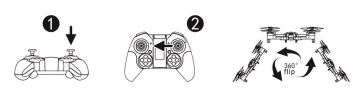
360° Flip Function



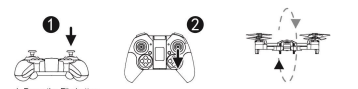
1. Press the Flip button
2. Push the stick to right, the drone will rotate 360° toward right direction



1. Press the Flip button
2. Push the stick to top, the drone will rotate 360° toward front direction.



1. Press the Flip button
2. Push the stick to left, the drone will rotate 360° toward left direction.



1. Press the Flip button
2. Push the stick to bottom, the drone will rotate 360° toward back direction.

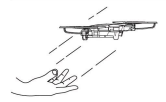
Speed Adjustment



Switch the speed button to change the speed gear while flying. There are 2 gears, switch the button to the left, you will hear "beep", means it is on first gear speed. Switch the button to the right, you will hear "beep, beep" means it is on second gear speed.

Remark: Beginners would be suggested to use the first gear speed firstly to play until skillful.

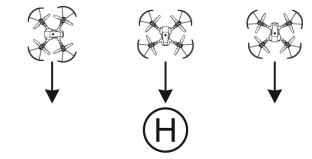
8. Throw-to-fly function



After frequency matching and calibration finished, you can hold the aircraft in your hand, and then horizontally throw it out. The aircraft will automatically unlock the blades and fly in the air.

Note: It is better to operate the calibration step again after operating Throw to fly for several times. The function will be more stable.

9. Return-to-home function

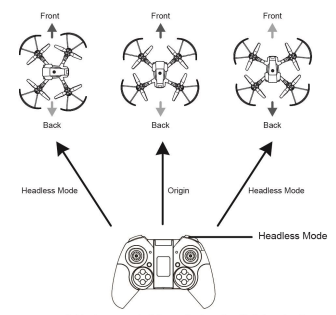


In regular mode, when the drone fly forward, no matter which direction that the drone heading to, press the " One Key Return" button, the drone would fly straight back to parallel the controller location.

Note : The drone will not land itself when operate this function, just fly straight toward the take-off direction, needs to stop by the right stick control.

10.Headless Mode Function

Press the Headless Mode button, when the indicator lights slowly flashing, means it is in Headless Mode.
Press the Headless Mode button again, when the indicator lights stop flashing, means that the Headless Mode is off.

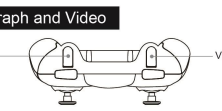


Users are recommended to stay same orientation as the drone head is facing when the drone takes off.

Under Headless Mode, the forward direction is same as the direction when the drone took off, where the head of drone was facing.

In order to make sure the users can tell drone's direction, we suggest that users better to stay in the same orientation as the drone facing when it takes off.
Then no matter which direction the head is facing, the drone will lock the controlled direction as the remote controller, easy to control back the drone.

11.Photograph and Video



Take Photos: Press the button of "take photo". Please make sure to open the app on your smart phone before using it, then you can review the photos taken in the media file of app.

Video: Press the button of "take video", short-press to start and press again to finish and save the video. Please make sure to open the app on your smart phone before using it, then you can review the videos taken in the media file of app.

12.Aircraft Parameters

Length of main wing:	83mm
Aircraft:	98X120X33mm
Total weight:	54g±2g
Battery:	3.7V 380mAh
Charging time:	About 50 mins
Flight time:	7-8 mins
Gyroscope:	built-in
Working temperature:	-10°C to 40°C
Remoter controller:	2.4G
Motor:	7*16 4pcs

Remote Controller Parameters

Wifi Transmission Range : 30-40 meters
(in a wide open area with no electromagnetic interference)

Working frequency:	2.4G
Battery:	3xAAA

13. FAQ

	ISSUES	CAUSE	SUGGESTIONS
1	After the battery is insertedin the drone, indicator lights on drone keep flashing, no response to operations	Frequency matching between remote and receiver not successful	Reoperate the frequency matching for remote and drone (please refer to P.4 for details)
2	No response after battery is inserted in the drone	1.Check if the power for remote and drone is full charged. 2.Connection of the poles are not good	1.Open the remote battery case and make sure if the battery is inserted in right position 2. Use a fully charged battery 3. Reinstall the battery and confirm whether it is good connecting with the poles well.
3	Motor does not run when operating the throttle stick and the indicator lights on drone keep flashing	Power for the Li-Poly battery is not enough	Charge the battery or replace it with a full-charged battery
4	Main motor blades spin but the drone won't fly	1. Some of the blades have been deformed 2. Battery power is not enough	1. Replace the main blade 2. Charge the battery or replace it with a fully charged battery

14.Battery Using Attention

Matters needing attention

(1) Rechargeable batteries are to be removed from the toy before being charged.
(2) Non-rechargeable batteries are not to be recharged.
(3) Rechargeable batteries are only to be charged under adult supervision.
(4) Only used to charging 2S Li-ion or Li-polymer battery pack. if not, the charger or battery may be damaged .
(5) During charging, the charger should be put in dry and ventilated place and far away from heat source and inflammable and explosive substance.
(6) Never immediately charge your battery pack as soon as the flight is finished, or when its temperature doesn't cool down. Otherwise the battery will take a risk in swelling, even a fire.
(7) Ensure the correctness of polarity before connection the battery to charger.
(8) Avoid drop and violence during the process of charging. drop and violence will result in internal short circuit of the battery.
(9) For the sake of safety, please use original charging equipment and battery pack . please change new one in time when the flying time is becoming shorten due to long time usage .
(10) If it is retained in the charger for a long time after saturated, the battery may automatically discharge. When the charger detects that the voltage of individual cells is lower than the rated voltage, it will re-charge until saturated. Frequently charging and discharging will shorten the lifetime of your battery pack. It is advised that please cut off the power and took off the battery after the charging is saturated.

Maintenance of battery pack

(1) The battery pack should be put in dry and ventilated place. The storage temperature of environment is ranged from 18°C to 25°C.
(2) Please avoid frequent charging and excessive discharging the battery pack in order to prolong its life cycle.
(3) It is a must to maintain the battery pack before long-term storage. That is to charge the battery to the level of 50-60% saturation.
(4) If the storage term is over 1 month, it is advised to monthly check the voltage of every cell of the battery pack. The voltage of every cell should be not less than 3V. Otherwise, please refer to the above article (3) .
(5) From the view point of protection, new battery pack should be motivated before usage. That is to charge and discharge 3-5 times, but discharge is not less than the level of 70% saturation. This process will make the battery lifetime longer and voltage more stable.

SAFETY AND PRECAUSTIONS

CAUTION — Remote-control models of quadcopter are dangerous merchandise. Their flight must be operated away from the crowd. Such factors as man-made improper assembly or mechanical damage, poor control of the electronic equipment, as well as the unfamiliar manipulation may lead to unexpected flight accidents, such as uncontrolled flight and aircraft damage. Users are advised to pay attention to the flight safety and understand that they are held responsible for any accident caused by negligence.

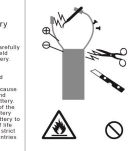
FORBIDDEN — Special drone for Indoor and outdoor should stay away from barriers

This product is a remote-control drone, that suitable for in indoor using and outdoor environments (the outdoor wind power less than Force 2). To fly this drone, please choose appropriate obstacle-free indoor and outdoor sites with proper distance kept from the crowd or pet animals. Please don't operate the product in any unsafe environments, such as places of heat, wires, power supply, etc., so as to prevent the quadcopter from the risks of fire and electric shock resulting from collision, ditching, and entangling of the drone.



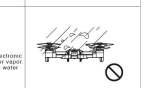
FORBIDDEN — Safe usage of the lithium battery

Lithium batteries are more dangerous than others. Be sure to read carefully and follow the following precautions before using it. We will not be held responsible for any damages caused by any improper use of the battery. To avoid the danger of explosion or fires, it is forbidden to use other chargers than the one made by our factory. Such actions done to the battery as impact, dismantling, reverse connection of the positive and negative poles, and burning are forbidden. Avoid metal objects from contacting the positive and negative poles of the battery, which may cause short circuit. Please prevent sharp items from piercing the battery, and avoid the risk of battery fire. Please be careful when charging the battery. Make sure that the battery is charging within your sight. Keep it out of the reach of young children so as to avoid dangers. Don't charge the battery when the battery is heated after use. Otherwise, it may cause the battery to expand, change, explode or even catch fire, threatening the safety of life and property. To dispose of the battery, please recycle the battery in strict compliance with the waste disposal laws and regulations of local countries or regions in order not to pollute the environment.



FORBIDDEN — Away from moist environments

The interior of the aircraft is also composed of many sophisticated electronic components so it must absolutely be kept away from moisture or water vapor. Don't operate the aircraft in the bathroom or on rainy days; otherwise water vapor may get inside of the aircraft and cause mechanical parts and electronic components to malfunction leading to expected accidents.



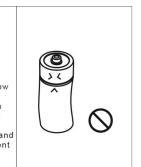
FORBIDDEN — Never misuse the product

Please do not disassemble or modify the product. For any upgrade, repair or maintenance, please use the parts specified in our catalog to ensure the safety of the structure. Please make sure the product is used within the limits of operation. Don't overload the product, and don't use it in any other illegal ways than prescribed by safety concerns and laws.



FORBIDDEN — Safe usage of the battery

Batteries are to be inserted with the correct polarity. The supply terminals are not to be short-circuited. Different types of batteries or new and used batteries are not to be mixed.
The exhausted batteries are to be removed from the toy. For long time storage, please take them out to prevent battery leakage.Please dispose abandoned batteries in accordance to the laws and regulations of the corresponding region to prevent pollution to the environment.



CAUTION — Keep away from source of heat

The aircraft is mostly made of PA fiber or polyethylene as well as other main materials for electronic products. Therefore, it must be kept from the source of heat and exposure to sunlight so as to avoid possible damage of deformation or even meltdown due to high temperatures.



WARNING — Never operate the product alone

This product is suitable for users over 14 years old. Since the remote-control quadcopter may pose a certain degree of difficulty for learners at the beginning, it is recommended for it to be operated under the guidance of experienced people for the sake of safe flight.



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.

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