

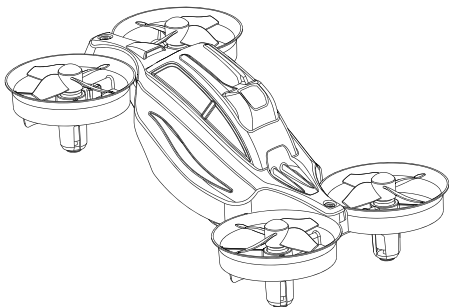
Marvelent

ages
14
+

LA VEHICLE

— land&air —

INSTRUCTIONS FOR USE



A90

FORBIDDEN:

Special design for indoor & outdoor, please keep it away from obstacle. This product is suitable for indoor (the wind grade should be not more than 4), please choose a place without obstacle, and keep distance from crowd and pets, don't play it under unsafety, for instance, heat source, wire or electronic power source in order not to be damaged by collision landing, entanglement and lead to a fire, electric shock and cause losses of lives and property.

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1.0 DISCLAIMER & WARNINGS

1. Please read this disclaimer, warnings and safety guidelines carefully before using our product. This product is not recommended for people under the age of 14. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damage caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable policies and guidelines we may make available.
2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factor, will not be our responsibility.

WARNINGS

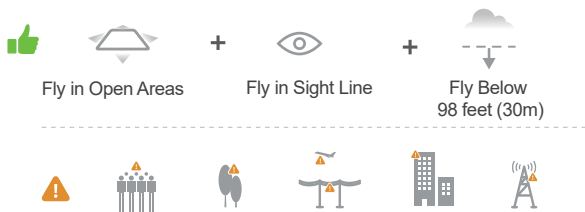
- (1). The drone is designed for age 14+.
- (2). Adult supervision is always advisable with any form of flying toy.
- (3). Always ensure your flight area is free of any obstacle before taking off, and ensure the drone is always flown in excess of 1.5 meters from yourself and others.
- (4). Remove all batteries from the drone and transmitter when not in use.
- (5). Never overcharge battery.
- (6). Never leave to charge battery unattended.
- (7). Never touch the drone's motors during or after flight as they can get hot.
- (8). Never touch the propellers when they are in rotating.
- (9). If the drone becomes damaged, stop using it immediately.
- (10). Do not dispose of any parts of the drone or transmitter in the normal rubbish, all parts should be taken to your local recycling centre.
- (11). The battery in the drone should never be exposed to any form of high temperature or disposed in a fire.

2.0 SAFETY GUIDELINES

2.1 Check Before Use

- (1). This product is not a toy, but a high precision drone that integrates various electronic stability and control mechanisms. Please be sure to set up this drone carefully and correctly to ensure safe, accident-free operation.
- (2). Please be sure that the batteries of the drone and transmitter are clean, undamaged and have enough power.
- (3). Please be sure that all the propellers are undamaged and are installed in the right orientation.
- (4). Please do a thorough check of the product before each use. Check for firmness of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the product until all the issues have been checked completely.

2.2 Safe Flight Environment



1. Make sure the surrounding area is free of any people, pets or other obstacles before you start to fly your drone.
2. Your drone is designed for indoor or outdoor use. However, it is not recommended to fly the drone indoor if there is a limited space, or outdoor if there is strong wind.
3. Keep a safe flight distance between you and the drone at all times.

2.3 Use of Battery

- (1) Please ensure the batteries are fitted in the correct orientation as shown in the instruction manual.
- (2) Avoid short circuits by fitting the batteries incorrectly, and do not crush the batteries as this may cause the risk of an explosion.
- (3) Do not mix new and old batteries as this can lead to a poor performance of the product.
- (4) Dispose used batteries carefully.
- (5) Please keep dead batteries away from heat and fire.
- (6) If the device is not going to be used for a long time, remove batteries to prevent potential damage from battery leakage.
- (7) It is recommended to only use the original USB charging cable that comes with the drone to charge the battery.
- (8) Don't connect the battery directly to wall outlets or car cigarette-lighter sockets.
- (9) Don't attempt to disassemble or modify the battery in any way.
- (10) Don't use the battery if it gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.

Notes: Please ensure the batteries for the drone and the transmitter are fully charged before flight.



Li-Po Battery Disposal & Recycling









Waste 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.



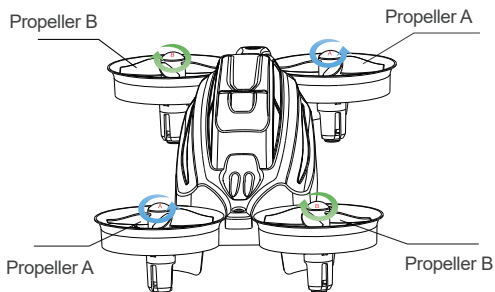
2.4 Maintenance

1. Clean the product after each use with a clean, soft cloth.
2. Avoid prolonged exposure to direct sunlight and avoid the buildup of heat on the drone or batteries.
3. This device is not waterproof and must not be submerged or subjected to water under any circumstance. Failure to keep the device completely dry will result in failure and permanent damage to the unit. Be aware that although it might be dry where you are, droplets of rain or mist from a river or waterfall could damage your drone where it is flying.
4. Frequently check the charging plug and other accessories for signs of damage. If any part of the device or cables is damaged, avoid the use or charging until the device can be serviced.

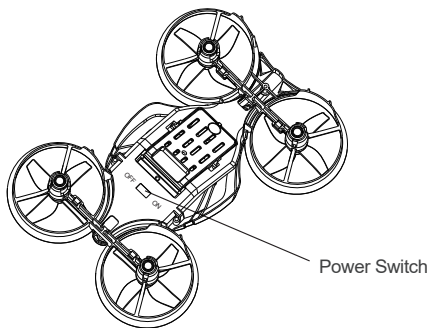
3.0 PACKING LIST

 x 1	 x 1	 x 1	 x 1
Drone	Transmitter	Drone Battery	USB Charger
 x 4	 x 1	 x 1	 x 1
Propellers	Propeller Screwdriver	Screwdriver	User Manual

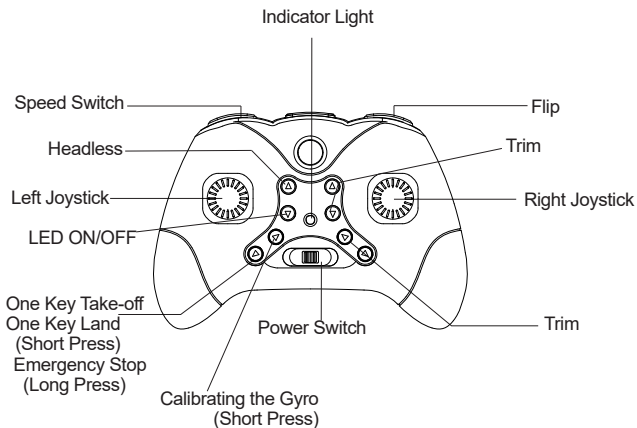
4.0 DRONE'S DETAILS



 It is crucial that all the propellers are installed in the correct position
WARNING (Pay attention to the letter A or B printed underneath each propeller).

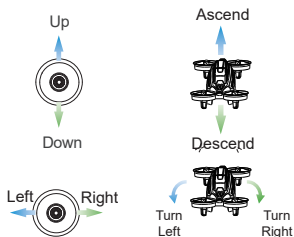


5.0 TRANSMITTER FUNCTIONS

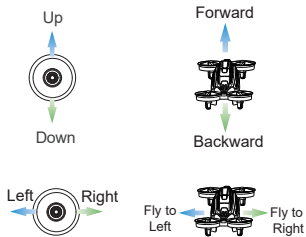


6.0 JOYSTICK MODE

Left Joystick



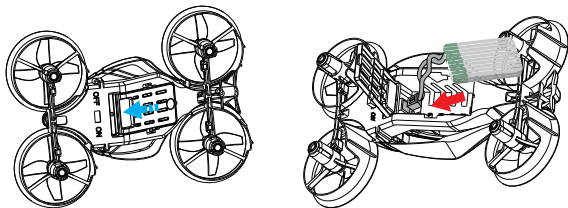
Right Joystick



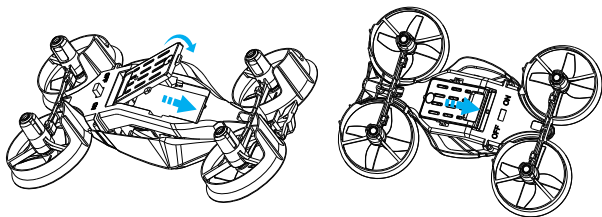
7.0 INSTALLATION

7.1 Drone Battery

Installation: Push down to open the battery compartment, align the battery plug with the drone plug and connect them.



WARNING Pay attention to the positive and negative directions of the battery plug when connecting the battery. The plug in the wrong direction cannot be connected.



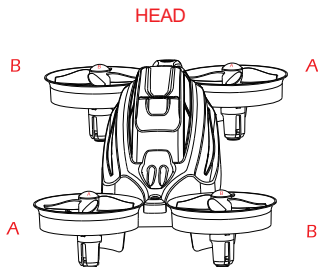
After connecting the battery, place the battery in the drone battery compartment; close up the battery compartment cover and lock it.



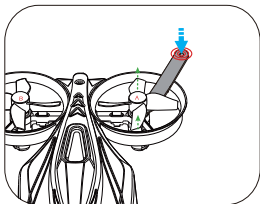
WARNING

The battery should be installed firmly, failure to do it may affect the flight safety of your drone.

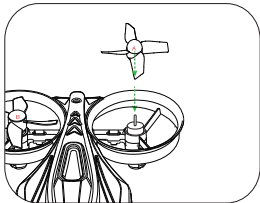
7.2 Propellers



Installation: As shown above, connect each propeller to its corresponding motor shaft, either position "A/B", then lock the propeller to the motor shaft.



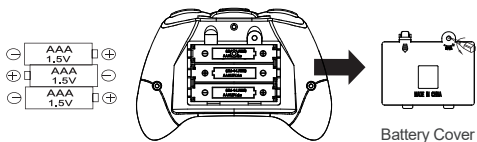
To remove the blades: insert the blade driver diagonally into the bottom of the blade with downward pressure.



Find the corresponding type of blades (A to A, B to B), and press the blades vertically to the motor shaft until the blades are pressed to the level of the protection rings.

Note: When replacing the blades, it is necessary to avoid the blades being deformed by external forces. The deformed blades will affect the flight stability of the drone.

7.3 Transmitter Battery



3 x AAA batteries (not included)



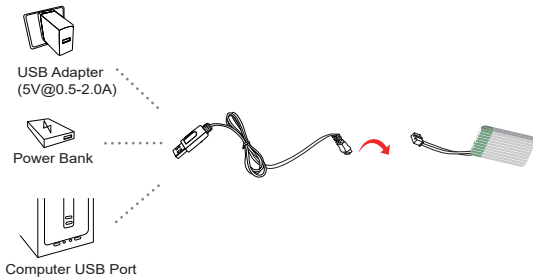
WARNING

Always use alkaline batteries, never mix old and new batteries.

1. Unscrew the battery cover, press and slide the battery cover out, and insert 3 x AAA batteries(not included), make sure to insert them following the correct polarity as shown.
2. Re-attach the battery cover.

8.0 CHARGING

8.1 Drone Battery



1. Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V @ 0.5 to 2.0A).
2. Connect the wire of battery with USB charging cable.
3. Charging time: about 60-70 minutes.
4. The red indicator light on the USB charging cable will turn off when the battery is under charging; and will turn on when the battery is fully charged.



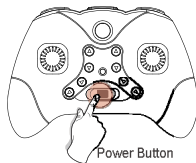
WARNING

Before charging, please read the instruction of the "2.3 Use of Battery" section of the "Safety Guidelines" carefully!

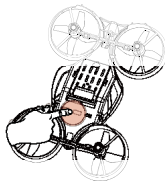
9.0 OPERATION GUIDE

9.1 Pairing

(1). Toggle the power switch of the remote control to the right to turn on the remote control, at the same time the remote control will make a beep, and the power indicator of the remote control will flash.

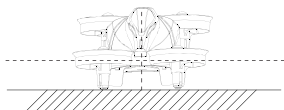


(2). Toggle the power switch of the drone to the right to turn on the drone, and the indicator light of the drone will flash rapidly at the same time.

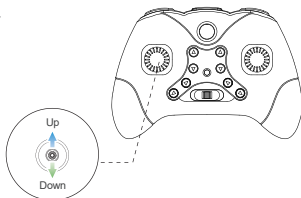


HEAD

(3). Place the drone on a flat and level surface with the head forward and the tail facing towards the operator.



(4). Slowly push the left joystick of the transmitter up to the top and transmitter will beep once and then pull down to the bottom and transmitter will beep once again. After pairing, the power indicator of the remote control will be solid, and the LED lights of the drone will appear "flickering".



9.2 Calibrating the Gyro

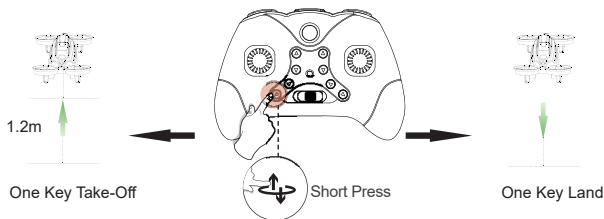
After pairing, short press the gyroscope calibration button of the remote control, the remote control will make a beep, and the LED lights of the drone will flash quickly for 2 seconds. At this point, the drone is reset to factory settings and is ready to fly.





Short Press



9.3 Taking-Off / Landing Method



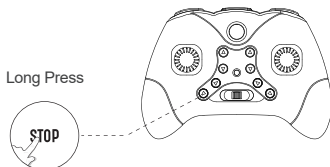
Method 1: Short press the one key take-off/land button “”, the drone will automatically take off and hover at an altitude about 1.2 meter. Short press the one key take-off/land button “” again, the drone will land slowly until landing.

Method 2: Push the left joystick up until the propellers of drone rotate without taking off and then push up the left joystick again to take off. Pull the left joystick down until landing.

10.0 FUNCTION DETAILS

10.1 Emergency Stop

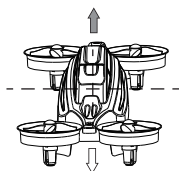
Long press the emergency stop button on the transmitter, the motors will stop rotating immediately.



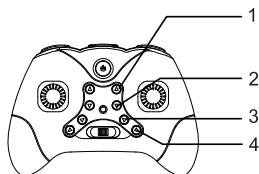
Only stop motors mid-flight in an emergency situation, doing so to reduce the risk of damage or injury.

10.2 Trimming

F/B Sideward Fly Trim

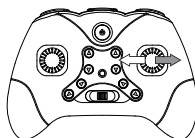
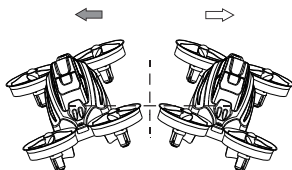


- 1- Forward trim
- 2- Backward trim
- 3- Left trim
- 4- Right trim



If the drone sways in an unprompted direction, use the trim buttons to correct the flight:

L/R Sideward Fly Trim

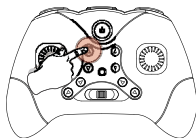


If the drone drifts left, short press down the right joystick while pushing the direction joystick right to balance the drone; If the drone drifts right, short press down the right joystick while pushing the direction joystick left to balance the drone. Short press down the right joystick again to exit trim.

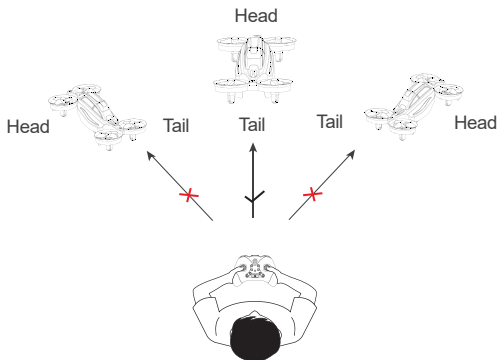
10.3 Headless Mode



Short press the headless button



Short press the headless button , the remote control will beep once, and at the same time all the LED lights of the drone body will flash twice simultaneously then break for 0.5 seconds, then flash twice and then break for 0.5 seconds, thus the drone has entered headless flight mode. Short press down the left joystick again to exit headless mode.



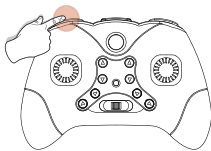
Please make the pilot stays facing the same direction as the direction that the head of the drone faces at take-off.

Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone takes off. In order to make sure the pilot can tell drone's direction, we recommend that pilots to stay in the same orientation as the drone head faces when the drone takes off. If so, when the pilot pushes the direction joystick forward, the drone will fly forward. If the pilot pushes the direction joystick backward, the drone will fly towards him/her. If the pilot moves the right joystick left/right, the drone will move left/right relative to you. It is very important that the pilot stays in the same orientation as the drone head faces when the drone takes off.

10.4 Speed Switch

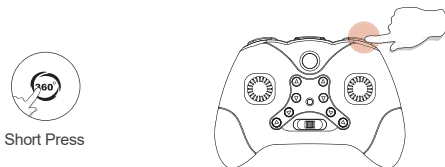


Short Press

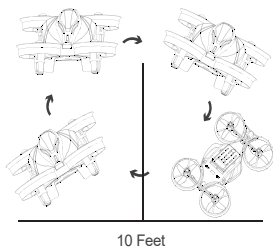


By pressing the speed button on the remote control, the drone can fly in three different speeds, namely slow/fast/super-fast flight.

10.5 360° Flips



Perform 360° flips by pressing the "flip" button and immediately operate the right joystick in the desired direction.



When you get familiar with all the functions of the drone, you can try this amazing flip mode. When you fly the drone at least 10 feet, press the 360° Flip button on the upper right of the transmitter, then push the right joystick Forward/ Backward or Left/ Right, and the drone will do a flip towards the corresponding direction.

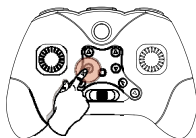
Tips:

This function will perform better when the battery is fully charged.

10.6 LED ON/OFF



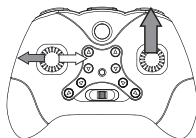
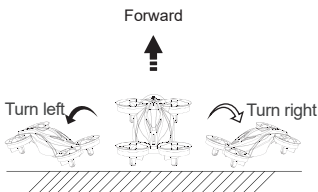
Long Press



Press the LED button to turn off/on the LED lights of the drone.

10.7 Race On Land Mode

1. When the drone is flying in the air, after landing the drone to the level ground, push the right joystick forward, and the drone will drive forward.
2. When the drone is driving forward on the level ground, turning the left joystick to the left will turn the drone to the left, and turning the left joystick to the right will turn the drone to the right.
3. You can also push the left joystick up while the drone is on the ground, and the drone will enter the air flight mode to fly.
4. When the drone is racing on the ground, the speed can be adjusted to increase the driving speed of the drone. (See 10.4 Speed Switch)



WARNING

1. When the drone is operating in "Race On Land" mode, the drone only has forward and left-right steering functions.
2. Please only drive the drone on smooth sites, rough and frictional grounds are not suitable for driving the drone.

FCC Statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Service

1. ALL MARVELENT PRODUCT CARRIES A 100% SATISFACTION GUARANTEE.
2. STAY UP-TO-DATE ON WHAT'S NEW FROM MARVELENT.
3. ALL THE PRODUCTS COVERED BY UNCONDITIONAL LIFETIME WARRANTY WHEN YOU COMPLETE THE REGISTRATION PROCESS.

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