# NO.668 A4/A5

# MINI DRONES

FCC ID:2AHTI668-A4

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.

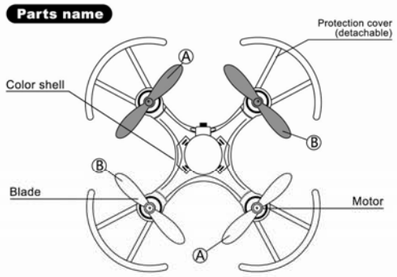
This device complies with part 15 of the FCC rules. Operation is subject to the following two
conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause
undesired operation.

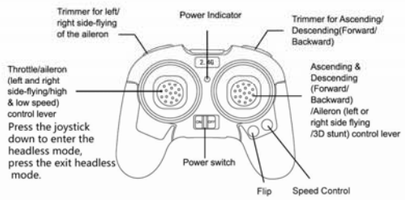
Changes or modifications to this unit not expressly approved by the party responsible for
compliance could void the user's authority to operate the equipment.

## 1.INTRODUCTION

This quadcopter is an easy-to-fly,full featured remote control model that can hover,flip,thrown and fly in all directions with different sensitivities,please read this manual carefully before operating this product.

## Parts name



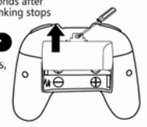




Press the joystick down to enter the headless mode, press the exit headless mode.

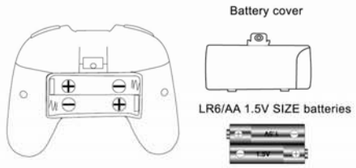
Calibration methods:. Power frequency after two joysticks to the bottom right corner while playing four seconds after letting go quadrocopter bottom light starts blinking stops 4 seconds after a successful calibration

## Assenbled remote controller

Use a screwdriver to remove the screws, Press the direction of the arrow indicated remove
Remote control battery cover.

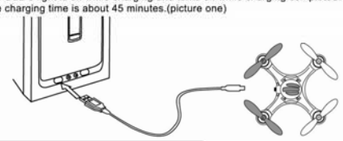


Install 2x "AA" batteries with the correct polarity, then replace the battery cover.




## Instructions on the quadcopter's battery charging

Connect USB charging line provided by factory with one end to computer and the other to the battery to start charging.
The USB's light is off while charging and turns on while charging completed.
The charging time is about 45 minutes.(picture one)



## Preparation before taking off

1.Please operate in spacious indoor or outdoor without rain or snow,and wind power should be below 4 grade, be away from people,animals and obstacle.
2.Insert the Li-po battery provided by factory into quadcopter.the indication light of the quadcopter is flashing, then put the quadcopter on leveled place and wait for frequency adjustment.
3.Pull the acceleration lever to the lowest,turn on the remote control's switchover,push the acceleration lever to the highest, then pull it back to the lowest again.
There will be a "di" sound and the quadcopter indication light turns on, then the frequency adjustment is completed and it's ready for taking off.

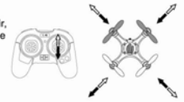
## Flying controlled and fine tuning

| | | |
|---|---|---|
| Ascend/ descend | When the left operating lever push up or pull down,the quadcopter is ascending or descending. | |
| Turning | Turning When the left operating lever push left or right,the quadcopter turns left or right,the quadcopter turns left or right. | |
| Forward/ backward | When the right operating lever push up/down, the quadcopter goes forth/back. | |
| Side Fly | When the right operating lever push left or right,the quadcopter goes to the left or right. | |
| Turning fine tuning | When the quadcopter is hovering and the head of the quadcopter turns left or right,turn the fine tuning to the right or left untilthe quadcopter keeps balance. | |
| Side-fly fine tuning | When the quadcopter is hovering,and the quadcopter is deviate to left or right then turn the side-fly fine tuning to right or left until the quadcopter keeps balance | |
| Forward backward fine tuning | When the quadcopter is hovering and the quadcopter is deviate to forward or backward,turn the forward/backward fine tuning up or down until it keeps balance. | |

## Flying practice

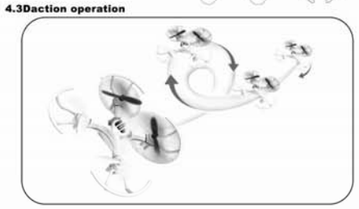
1.Accelerating operation:
Slowly push the acceleration lever until the quadcopter take off from the ground and hovers in the air,then pull the acceleration lever back until the quadcopter slowly descends. Practice this repeatedly until you could control the acceleration lever smoothly.

2.Vice-blade operation:
When the quadcopter hovers in the air, push the right lever slowly to make the quadcopter fly forward/back ward/to left/to right.



3.Turning operation:
When the quadcopter hovers in the air, push the turning rudder slowly to make the quadcopter turns left or right.

### 4.3Daction operation

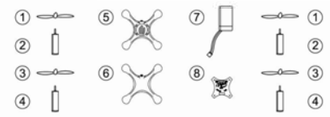


Hinweis:Wenn Schwebeluftfahrzeug abgewichen mehr,das Flugzeug auf einem ebenen Boden und setzen Sie dann die fembedienung Ruder Grobe bis 100%,die Feinabstimmung Gyrus , wahrend der Fembedienung zwei joysticks,um amEnde in die linke untere Ecke spielen etwa 4 Seckunden, dann das Flugzeug motherboaed Licht blink,lassen Sieden Hebel,der Vorstand fur 2 Sekunden blinkt,dann hort auf zu blinken,ist die Kalibrierung bit abgeschlossen.
You can play some thrilling action rolling surface current basic movements are skilled,then no amount of rudder upper right corner, click the button on the remotecontrol ,remtoe controls emit droplets of a sound,this time into the 3D rollover state,then hit the remote control 3D joystick in any direction to achieve roll, presthe remote controller drops two sounds. Back to conventional flight mode.
TIPS: 1.When matching signal,keep the quadcopter on horizontal position for faster matching and starting a stable flight.
2.Indoor's flight: please select spacious place without obstacle, pets and people for flight.
3.Outdoor's flight: please select a warm sunny and no wind or breeze for flight.
Note: 1. Don't fly in the extreme weather and the model maybe damaged in extreme heat or cold weather which will affect flight effect.
2.Don't fly in the strong wind weather which will cause limitations to the flight or hinder your flight control. In the case of strong wind, your aircraft will vanish or damage.

## Common problem and solution instruction

| Problem | Reason | Problem shooting |
|---|---|---|
| No power with the transmitter | 1. Pull to the "OFF" position on the ON/OFF button. | 1. Pull to the "ON" position on the ON/OFF button. |
| | 2. Do not correctly load the batteries as per the correct polarity shown.. | 2. Check and make sure the batteries are correctly loaded as per the polarity shown in the battery box. |
| | 3. The battery is exhausted. | 3. Replace with the new battery |
| Can not control | 1. Transmitter is not opened. | 1. Pull to "ON" position on the ON/OFF button of the transmitter. |
| | 2. The ON/OFF button of the helicopter is on the "OFF" position. | 2. Pull to "ON" position on the ON/OFF button of the helicopter. |
| | 3. Do not wrench tight the antenna or the antenna can't be completely extended. | 3. Make sure the silver antenna is wrenched into the transmitter and extended completely. |
| | 4.Too strong wind force | 4. Do not fly under the environment of windy as too strong wind may cause flying limitation to the helicopter or it may hamper your controlling or flying. |
| The helicopter cannot ascend. | 1.The rotating speed of the rotator is too slow. | 1. Push the power controlling lever upward. |
| | 2. the helicopter is not fully charged. | 2. Charge the helicopter till full. |
| The helicopter lands too quickly. | You pull the power controlling lever back too quickly. | Slowly pull the power controlling lever back and let the helicopter land slowly. |

## Accessories



1.Clockwise blades(2 pcs)
2.Counter-clockwise blades(2 pcs)
3.Reversal blades(2 pcs)
4.Reversal motor(2 pcs)
5.Upper shell(1 pcs)
6.Lower shell(1 pcs)
7.Battery(1 pcs)
8.Receiver b oard(1 pcs)

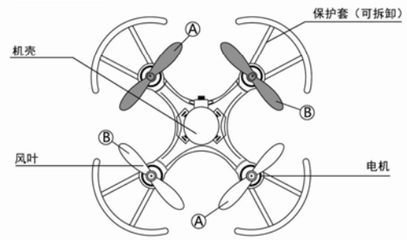
# NO.668 A4/A5

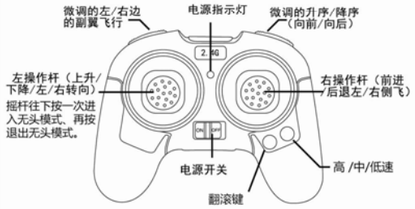
# MINI DRONES
# 迷你飞行器说明书

## 1.引言

该飞行器是一种容易操控的全功能遥控模型，具有抛飞功能，能够悬停，360°翻转、无头模式和 高低速模式切换。
在使用本产品前，请仔细阅读本说明手册。

## 主要部件名称




摇杆往下按一次进入无头模式。再按退出无头模式。

校准方法：开机对频后,两个遥杆同时往右下角打4秒钟后放手.四轴飞行器底部灯开始闪烁4秒钟停止后,校准成功

## 安装遥控器

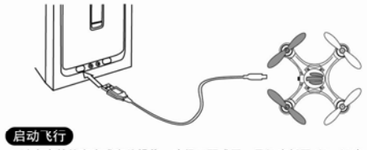
用螺丝刀将螺丝拆下，
再按图中箭头表示的方向取下
遥控器的电池盖.

请使用两节 7号“AA”电池，然后依正负的极性装入遥控器内.
（勿混用不同规格的电池）

产品特点：
飞行时长：4-6分钟（配备3.7v100MA,它可以达到充电后达到最好的飞行效果）
飞行距离：30-50米
强大性能：可靠的频率对比和强大的抗干扰能力
产品尺寸：8*8cm

## 飞行器充电指示

取出USB充电线，将飞行器插座跟充电头连接,USB端插到电脑上的USB插口上（或者USB电源适配器），对电池进行充电，充电时USB头红色指示灯熄灭，充满是红色指示灯亮起，充电时间大约40-60分钟.



## 启动 飞行

1. 请在宽敞的室内或室外操作，确保无雨或雪，风级应低于4级，远离人和动物及有障碍物的地方。
2. 对代码：先打开遥控器电源，然后将飞机锂电池装入飞机，并插上电源，飞机LED灯持续闪烁，表示遥控器还没有启动，需要将遥控器的油门杆推至最大，再将油门杆推到最低限度，LED灯闪一直不停闪烁，表示遥控器正在对码，指示灯常亮，遥控器处于可飞行状态。
3. 油门加速度杆到最低，把遥控器上的又最低。将有“嘀”的声音和四轴飞行器充电指示灯亮，则频率调整完成，这是准备起飞。

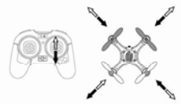
## 操作方法

| | | |
|---|---|---|
| 上升/下降 | 当作操纵杆（油门）向上或向下推，飞行器相应的上升或者下降。 | |
| 转弯 | 当左操纵杆（油门）向左或向右推，飞行器相应的左转或者右转。 | |
| 前进/后退 | 当右操纵杆（方向）向上或向下推，飞行器相应的前进或者后退。 | |
| 左/右侧飞 | 当右操纵杆（方向）向左或向右推，飞行器相应的左侧飞或者右侧飞。 | |
| 转弯微调 | 飞行器在空中盘旋或向左向右偏离的情况下，可向右拨动按钮进行校正。 | |
| 侧飞微调 | 飞行器在空中悬停的情况下，飞行器自动向左侧或者右侧侧飞时，可向左或者向右拨动按钮进行校正。 | |
| 前进/后退微调 | 飞行器在空中盘旋或向前向后偏离的情况下，可向左或右拨动按钮进行校正。 | |

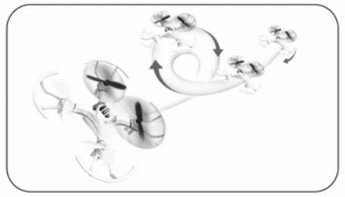
## 飞行实践

1. 飞行实践操作：
慢慢推动油门杆，直到四轴飞行器从地面起飞，盘旋在空中，然后拉加速杆，直至飞行器缓缓下降。反复练习，直到你可以顺利控制的加速杆。

2. 当飞行器悬停在空中时，慢慢推右操纵杆，使四轴飞行器相应的前进/后退/或者向左转/右转。



3. 飞行器悬停在空中时，慢慢的推动左操纵杆。使飞行器转向左侧或者右侧。



1. 当前面的基本动作都很熟练时就可以玩一些惊险的翻滚动作，按一下遥控器右上角按键，遥控器发出“嘀”的一声响，此时进入3D翻滚状态，这时打遥控器杆任何方向事先3D翻滚。

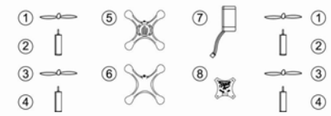
2. 注意：当飞行器悬停片；离较多时，把飞行器平放在地面上然后把遥控器舵量大小调到100%，各微调中，同时把遥控器的两个操纵杆向右打到底约4秒钟，此时飞行器主板指示灯闪烁，松开操纵杆，主板闪烁2秒钟后停止闪烁,校准中位完成。

温馨提示：
1. 飞行器起飞前，请务必将飞行器放置在水平面上，确保飞行器在起飞后平稳飞行！
2. 在室内飞行：请选择附近无障碍物、宠物几人的宽敞处飞行。
3. 在室外飞行：请选择温暖晴朗及没风或微风的天气飞行。
注意：1. 切勿在气温极端的天气飞行，在过热或过冷的天气下飞行会影响飞行效果或损坏模型。
2. 切勿在强风的天气飞行，强风会对飞行造成局限或会妨碍你的飞行控制。在强风的情况下飞行，你的飞行器会不知所踪或令他损坏。

## 解决问题指引

| 问题 | 原因 | 处理方法 |
|---|---|---|
| 遥控器电源指示灯不亮 | 1.开/关在“OFF”的位置 | 1.开/关在“ON”的位置。 |
| | 2.没有依正确电极指示放入电池。 | 2.检查和确保电池是否依照电池箱所指示的正负极放入。 |
| | 3.电池已耗尽。 | 3.更换全新的电池。 |
| 不能遥控 | 1.没有开启遥控器。 | 1.把遥控器开/关拨向“ON”的位置。 |
| | 2.直升机开/关在“OFF”的位置。 | 2.把直升机开/关拨向“ON”的位置。 |
| | 3.没有好紧遥控器的天线或天线未完全伸长。 | 3.确保把天线拧入遥控器中和完全伸长。 |
| | 4.风力太大。 | 4.切勿在有风的情况下飞行。有风会对飞机造成局限,或会妨碍你的控制飞行。 |
| | 5.遥控器指示灯闪烁。 | 5.将油门操纵杆拉到最下，或更换电池。 |
| 四轴飞行器不能升高 | 1.旋翼转动速度太慢。 | 1.油门操作杆向上推。 |
| | 2. 四轴飞行器并未完全充电。 | 2.为直升机完全充电。 |
| 四轴飞行器很快便着陆 | 你太快的将油门操作杆拉回。 | 慢慢地回拉油门操纵杆让四轴飞行器慢慢着陆。 |

## 配件图



1. 正转风叶（2 个）
2. 反转风叶（2个）
3. 正转电机（2 个）
4. 反转电机（2 个）
5. 机身外壳（1个）
6. 机身（1 个
7. 电池（1 个）
8. 接收器（1 个）