

## **Specifications:**

### **What is a brushless motor? Why is it better than the conventional motors?**

- Advanced brushless motor technology facilitates lower friction between the motor moving parts, thus reducing heat production. Therefore, the brushless motors are extremely durable; and energy-efficient with longer battery life of 50% or more compared to conventional motors.
- Furthermore, the brushless motors are much more powerful than the conventional motors, providing greater capability to the drone to fly faster and higher than the normal brush motor drones.
- Our MT1806 1800kv Brushless Motor is the most cost-effective brushless motor among the brushless motor lines. Maximum upward lift 230g. Flying with sport camera is just a piece of cake.

### **How much does the drone weigh?**

- 485g/1.07 ounces without high landing gears, protecting guards and battery

### **What is the size of the drone?**

- L/W/H: 45 x 45 x 14 cm / 17.32 x 17.32 x 5.5inches (With High Landing Gears and Propeller Guards)

### **Does the drone have to be registered with the FAA?**

- Yes, it meets the minimum weight requirement of 0.55 lbs. or 8.8oz. Therefore, you need to register it with the FAA at the following weblink:

<https://registermyuas.faa.gov/>

### **Do I need a license to fly the drone?**

- No, a license is not required.

### **What is the range?**

About 300~500m.

**NOTE:** Be mindful that the control range is much longer than the conventional toy drones; however, according to the FAA rules about Unmanned Aircraft Systems, when a drone is fly for fun, it must be kept in sight (visual line-of-sight) during the flight. Also for safety concerns, it is not recommended to fly the drone out of your eyes-view.

### **Is there a warranty?**

- Yes, there is a standard 30-day warranty for manufactured defects.

**Is there a user manual in electronic format?**

- Yes, online versions can be downloaded at:

<http://drocon.co.uk/support/#2>

Or please contact us for it via email at: [service@drocon.co.uk](mailto:service@drocon.co.uk)

**Pre-flight:****My box is missing an item, what do I do?**

- All the packages were inspected thoroughly before shipping. Kindly check the content of the package and compare it with what is written on the product page. Please remember that the :
  1. The remote control is under the foam tray.
  2. The action camera is not included with this product and hence it has to be purchased separately. Please contact the distributor via Amazon Message to do so.
  3. If any other component is missing from the package, please contact the distributor for assistance.

**In-flight:****Does the drone hover in one place?**

- Yes, this drone performs much better at hovering at any given altitude than most drones, which makes it easier to be controlled.

**Does the drone have GPS in the case it is flown away or lost?**

- No. Suggestion- When the battery is running low on power i.e. the transmitter starts beeping , the drone should be flown closer to the user.

**Does this drone possess the headless mode and return home functions?**

- No, headless mode is not available for this drone. Additionally, the return home function can only work under the headless mode, hence it is not operable for this drone.
- Suggestions:
  1. There are bright blue and white LED lights under the body of the drone, which can be used to indicate the front and rear of the drone clearly when flying at low heights.
  2. Due to its great stability, the drone's orientation will seldom change at great heights or distances. However, be cautious when operating the drone on a windy day or performing a 3D flip as the orientation may change minimally.

### **Can the drone be flown indoors?**

- It is a bit large to fly indoors unless you have a large open space.

### **Can two of these drones be operated side-by-side?**

- Yes, they operate on a 2.4GHz frequency which allows this. Turn on one of the drones and pair it to its transmitter then proceed the same with the second drone and transmitter.

### **How do I activate the flip feature?**

- Press the left button on the right top of the remote control then tilt the directional stick to whichever direction the flip or roll is desired.

### **How do I adjust the drone's balance if it is drifting ?**

- If the drone is drifting forward or backward, use the forward/backward trim button (upper right) on the transmitter to adjust it. For example, adjust trim button in the forward direction, if the drone is drifting backwards and vice versa.
- If the drone is drifting to the left or right direction, use the trim button (bottom right) and adjust the directional balance. That is, push the trim button to the right, if the drone is drifting left and vice versa.
- If the drone is rotating to the left, push the trim button (lower right) to the right so as to adjust it and vice versa.
- The trim function has a time delay of a few seconds, kindly be patient as the adjustments come into effect.
- To reduce drifting issues, it is recommended to calibrate the drone and remote control frequently, for operation details, please refer to the product manual.

### **When should I perform a drone calibration? And when to do a remote control calibration?**

- Drone calibration is necessary when it is obvious that the drone is flying to one side or rotating at will. This kind of phenomenon will happen when the rotating speed of each motor differs, thus the observed deviation in the drone direction. The drone calibration must be done to rectify this problem.
- Remote calibration is necessary when the command to the drone is not as accurate as before. This means that the command data of the remote control needs to be adjusted to its origin. To resolve this issue, please calibrate the remote control.

### **How will I know when the drone battery is getting low?**

- Low power alarm: The remote control will start beeping intermittently and its green indicator light will become solid. Please note that there will only be 5 to 6 minutes to

fly the drone after the lower power alarm is activated, therefore the drone should be flown in closer proximity so as to avoid losing it.

#### **How will I know when the drone is flying out of range ?**

- Weak Signal alarm: The transmitter will start beeping continuously and the green indicator light will become solid. When the weak signal alarm is activated, please return the drone within closer distance immediately so as to avoid losing it.

#### **What happens if the drone goes out of range with the transmitter?**

- There is a feature that alerts the user if the drone will be out of range. The drone should be returned within range or the user move quickly towards the drone to re-establish the connection. If this does not work, the quadcopter will start descending once it is not being carried away by the wind.

#### **Battery:**

##### **How long can the drone be flown for?**

- A fully charged battery will last 15-18 minutes

##### **How long does it take to charge a battery?**

- For a complete charging session, it will take 4~5 hours.(In cold weather or if it has not been charged for a long time, the charging time will be longer.)

##### **Where can I purchase more batteries?**

Amazon US: <https://www.amazon.com/dp/B0725T4JSF>

Amazon UK: <https://www.amazon.co.uk/dp/B072FMZYNC>

Amazon DE: <https://www.amazon.de/dp/B072V369B2>

Or please contact us for it via email at: [service@drocon.co.uk](mailto:service@drocon.co.uk)

##### **Can I buy a more powerful battery for A longer flight time?**

- It is recommended to use the same type of batteries provide in the package. A more powerful battery runs the risk of burning out the motors more quickly.

##### **Does the transmitter need a special battery?**

- No, it uses 4 standard AA batteries

### **Camera:**

#### **Is the drone equipped with a camera?**

No, the drone itself is not equipped with a camera, but you may accessorize it with an action camera or other camera devices mentioned in the manual or on the package box. You may contact the distributor for further help and advice.

#### **Can I attach a GoPro to my drone?**

Yes, there is an action camera mount beneath the drone body. Action Cameras such as GoPro, C4000 and others of the similar size can be affixed to the drone,.

### **Video:**

#### **Can I view the flight real-time on my phone?**

Not at this moment . However, once equipped with a compatible FPV camera (**currently unavailable**), this will be possible.

#### **Is there a camera button on the Remote Control?**

Yes, there is a camera button on the top-right corner of the remote control, located beside the flip button. **NB** Kindly remember that the camera button will only work when the drone is equipped with a FPV camera.

### **Troubleshooting:**

#### **The top left trim button on the transmitter is stuck:**

- This is meant to be an inoperable button so it will not move.

#### **Why doesn't the left lever return to the center position on its own like the right throttle?**

- The left throttle was designed to work in this manner

#### **One of the motors stopped working, what can I do?**

- Suggestion : Apply a small amount of electronic-safe lubricant to the inoperable motor to rectify the issue. If that does not work , the motor may be damaged and needs to be replaced. Replacement motors are sold at:

Amazon US: <https://www.amazon.com/dp/B072X9Q8XG>

Amazon UK: <https://www.amazon.co.uk/dp/B072XBBGF8>

Amazon DE: <http://www.amazon.de/dp/B072X7YKWR>

Or please contact us for it via email at: [service@drocon.co.uk](mailto:service@drocon.co.uk)

### **Can I use oil on the motors or propellers?**

- Yes, as long as it is oil that is suitable for electronic components.

### **Spare Parts:**

#### **Where can I find spare parts?**

- Spare parts are sold at:

#### **Spare Battery:**

Amazon US: <https://www.amazon.com/dp/B0725T4JSF>

Amazon UK: <https://www.amazon.co.uk/dp/B072FMZYNC>

Amazon DE: <https://www.amazon.de/dp/B072V369B2>

#### **Spare Propellers:**

Amazon US: <https://www.amazon.com/dp/B071J3XG7N>

Amazon UK: <https://www.amazon.co.uk/dp/B07238WNQ1>

Amazon DE: <https://www.amazon.de/dp/B0723BLSKY>

#### **Spare Motors:**

Amazon US: <https://www.amazon.com/dp/B072X9Q8XG>

Amazon UK: <https://www.amazon.co.uk/dp/B072XBBGF8>

Amazon DE: <http://www.amazon.de/dp/B072X7YKWR>

Or please contact us for it via email at: [service@drocon.co.uk](mailto:service@drocon.co.uk)

### **Useful Tips:**

1. If the drone is being flown at a relatively great distance or height, and the forward orientation is no longer recognizable by the sight of the blue LED lights under the body , try to activate a 3D flip function. At that moment, the orientation can be determined by the flip side of the drone instead.
2. When the remote control starts beeping, regardless of what the alarm is, it is better to fly the drone in closer proximity so as to avoid loss or mishaps.

3. The camera mount size is not adjustable, if it is found that the action camera cannot be fitted properly in the slot provided, try adding foam inside for support.
4. To have a longer battery life, it is suggested to use the battery immediately after it is fully charged. The battery may need to recharge if it remains unused for a long time. Another suggestion is only applicable to experienced users, that is, to disassemble the propeller guards and high landing gears so as to reduce the drone's weight.

**Important Cautions:**

1. Always remember to lock the motors before picking up the drone, it is dangerous to touch the rotating propellers with your fingers.
2. Be careful with the cables when charging the battery, if you find any damages or broken wires, please stop using the charger or battery and purchase a replacement to avoid the risk of burning.

**For more help or to answer any questions not listed here please e-mail**

**Service@unicdrone.com**