

14+



MICRO DRONE



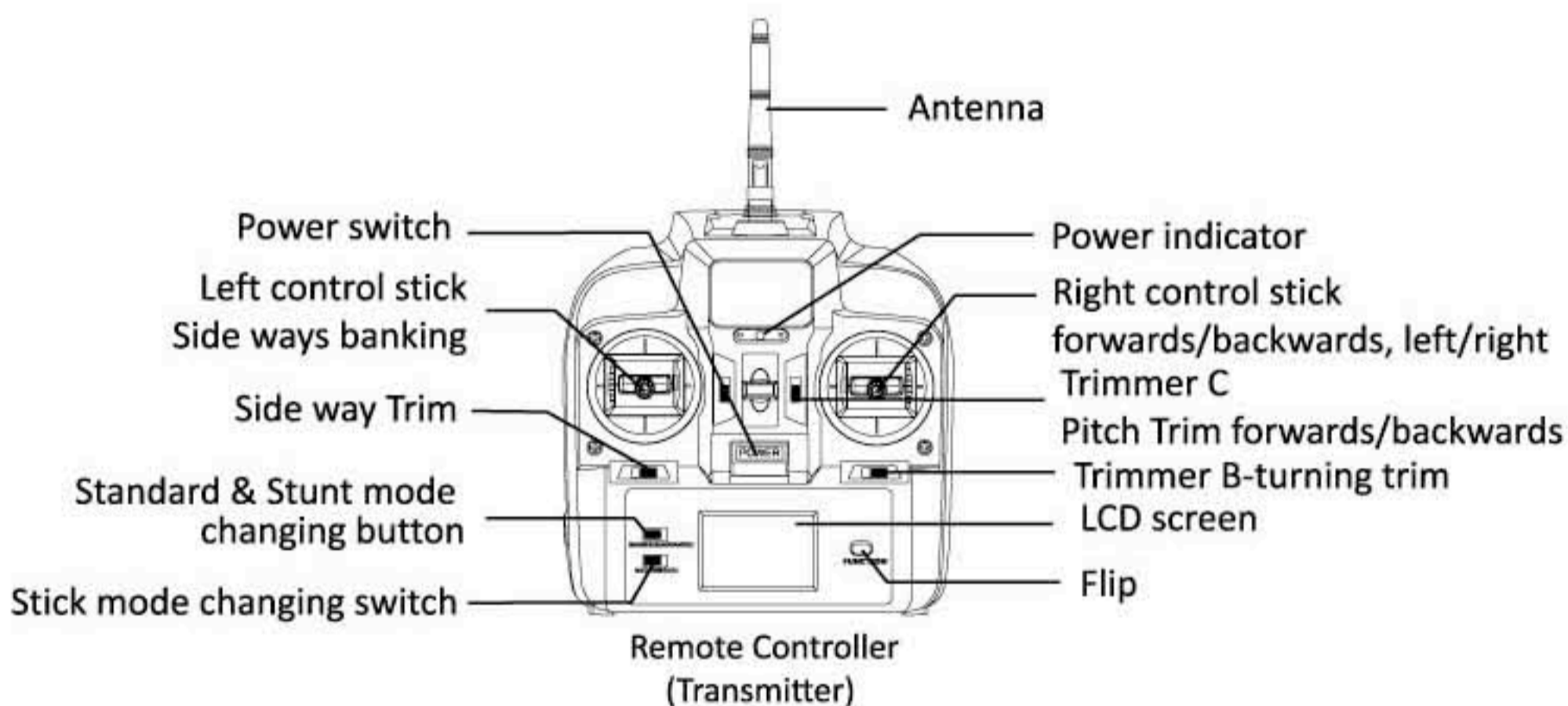
INSTRUCTION MANUAL

Thank you for purchasing this product. Please read this manual carefully before use and retain it for future reference.

Specifications

Fuselage Length: 145MM	Gross Weight: about 35.5g	Main Rotor Diameter: 56MM
Overall height: 200MM	Battery: Li-polymer3.7V 300mAh	Motor: Brushless Motor
Gear Ratio: 14:1	Tail Rotor Diameter: 145MM	Charging Time: about 60 minutes

Micro Drone Flight Controls

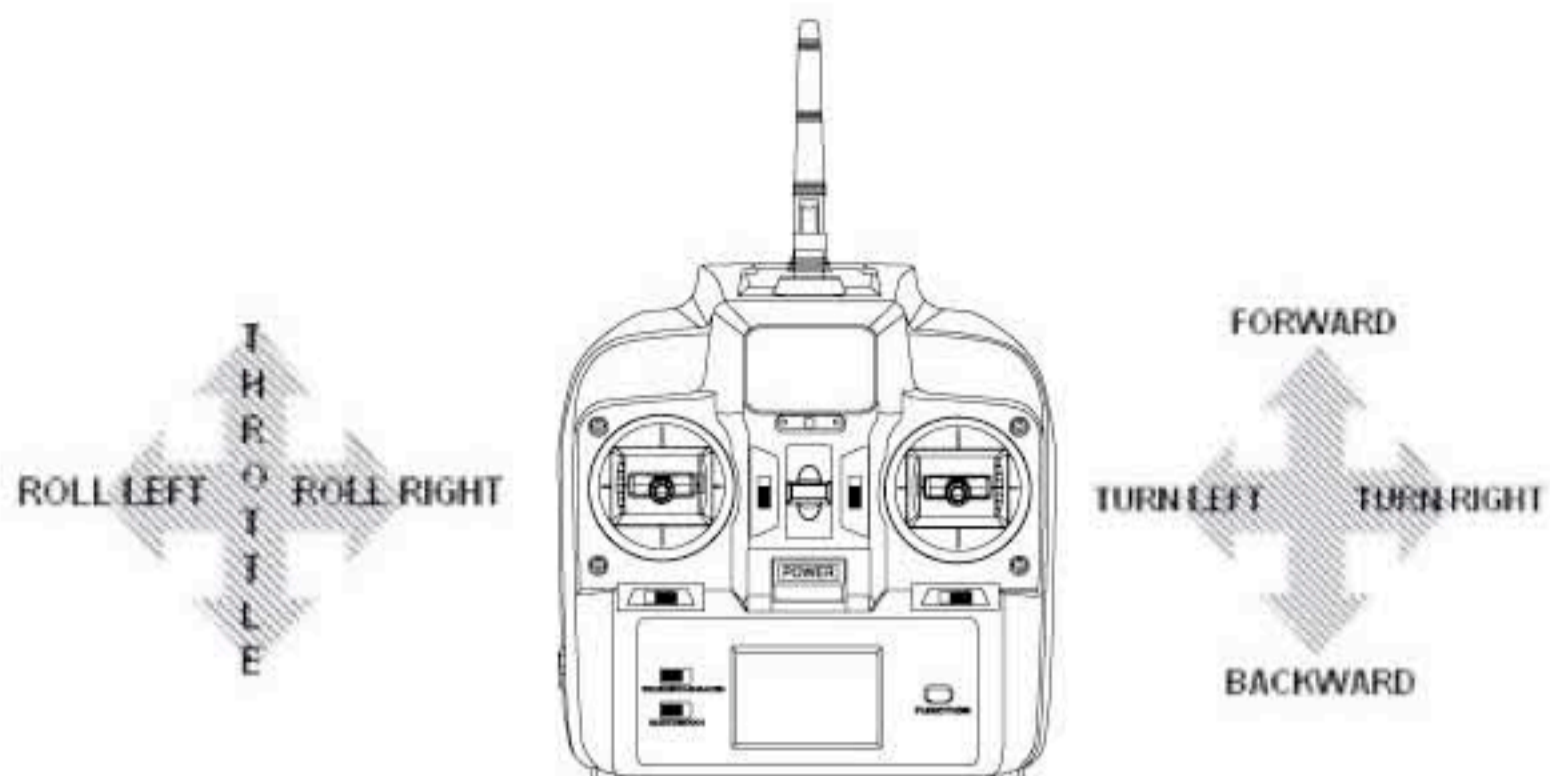


Once you've learned to fly Micro Drone or any kind of Helicopter on a certain transmitter Mode, the chances are that you'll stick with that same mode throughout your flying days. Re-learning to fly on a different mode is essentially the same as starting from scratch, so we've outlined the two different flight controls for Micro Drone.

The transmitter modes for Micro Drone echo the ones for R/C Airplanes (in terms of pitching and rolling) and R/C helicopter transmitters (with the extra channel for turning). With that in mind we have designed Micro Drone with Mode 2 and Mode 4 industry standards making it user friendly for first time users or for Radio Control pilots accustomed to professional flying. The handset allows you to switch between Mode 2 and Mode 4. The slider is located at the bottom/left.

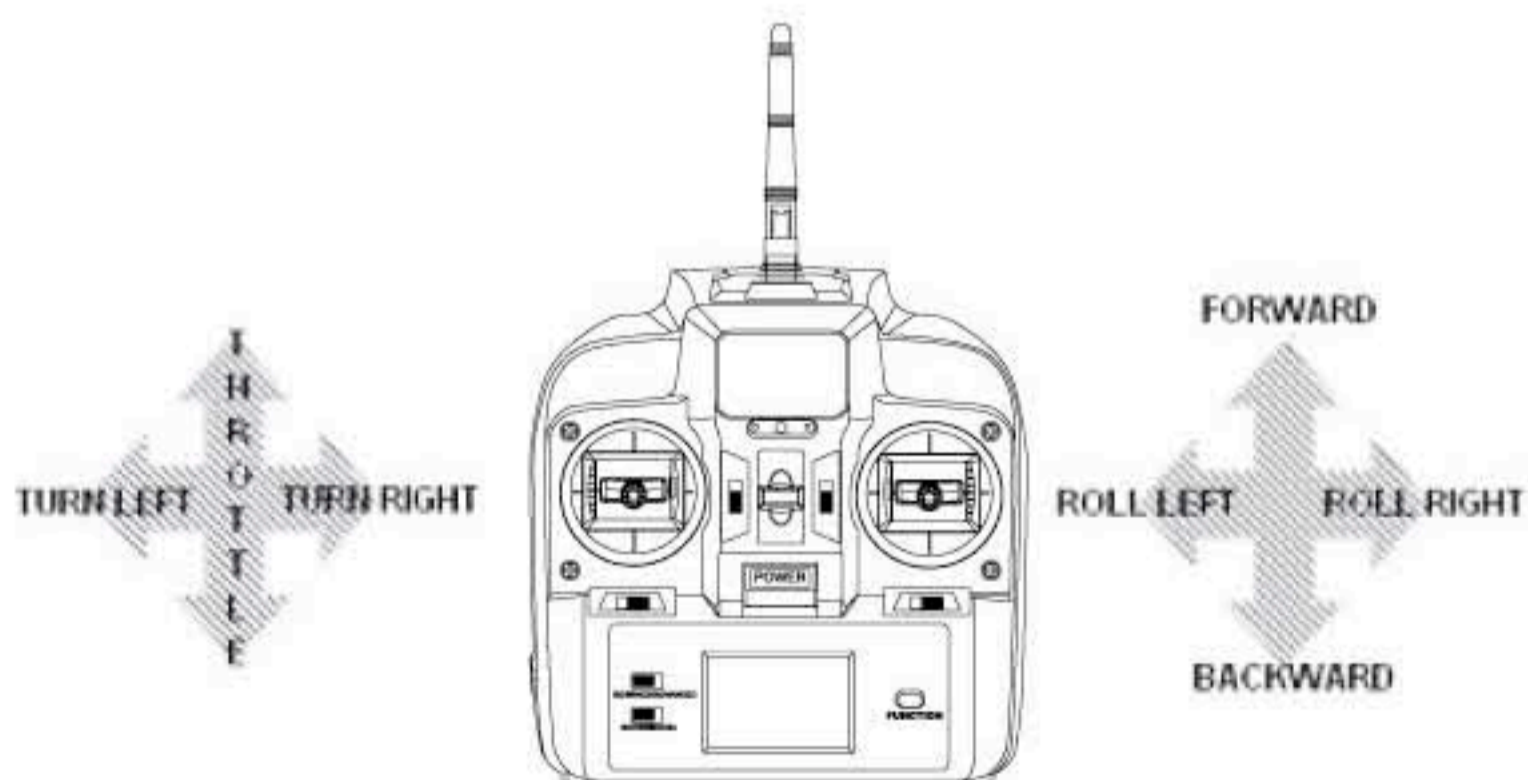
The two different Micro Drone transmitter modes are illustrated below:

Mode 2



Left stick operates the Throttle & Left/Right Roll, Right stick operates Forward/Backward pitch & Left/Right Turn.

Mode 4



Left stick operates the Throttle & Left/Right Turn, Right stick operates Forward/Backward pitch & Left/Right Roll.

As you can see, Mode 2 is the opposite to Mode 4.

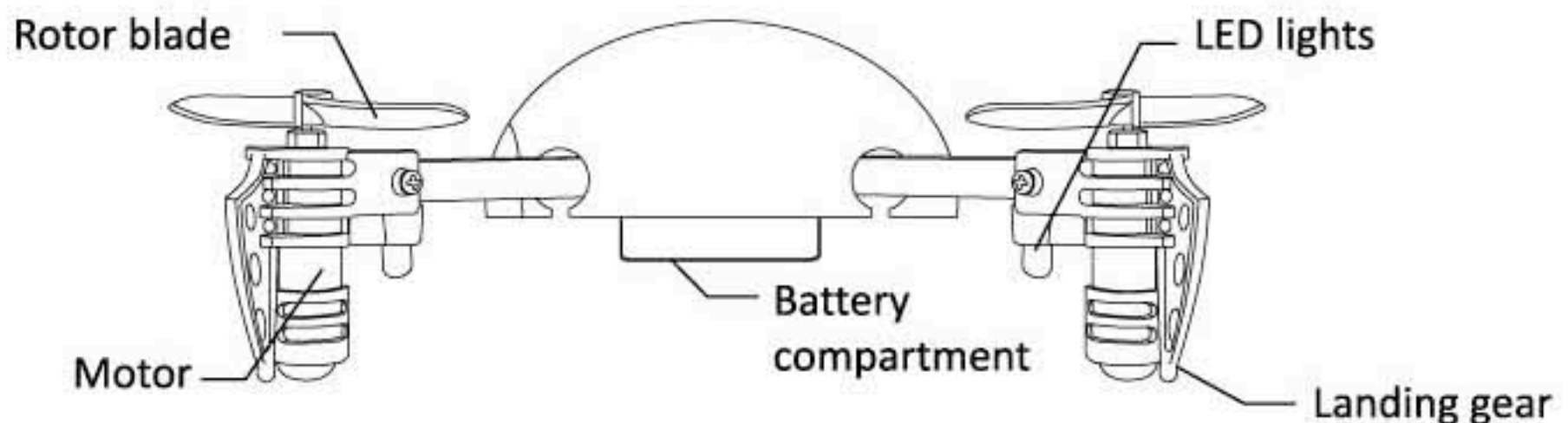
Pros and Cons of each Mode

No Mode is better than another one, and the choice of which transmitter Mode you use comes down to personal preference or which Mode you have used before.

There are minor pros and cons to each mode. For example in Mode 2 the two primary pitch controls are on separate sticks – similar to small 3 Channel Helicopters (which will feel easier to fly if you have used these kinds of helicopters before flying Micro Drone), it is good because if you move each control independently then there is no chance of you inadvertently changing one while moving the other (such as accidentally loosing or gaining altitude while turning). But Mode 4 has both these primary controls on the same stick, which replicates the stick of a real helicopter – preferable for professional pilots and making the Micro Drone control more true to life and only one thumb having to worry about these main controls.

As Micro Drone is designed for new and experienced pilots, we have made it with two modes to accommodate both preferences.

The Micro Drone



How to charge the Micro Drone

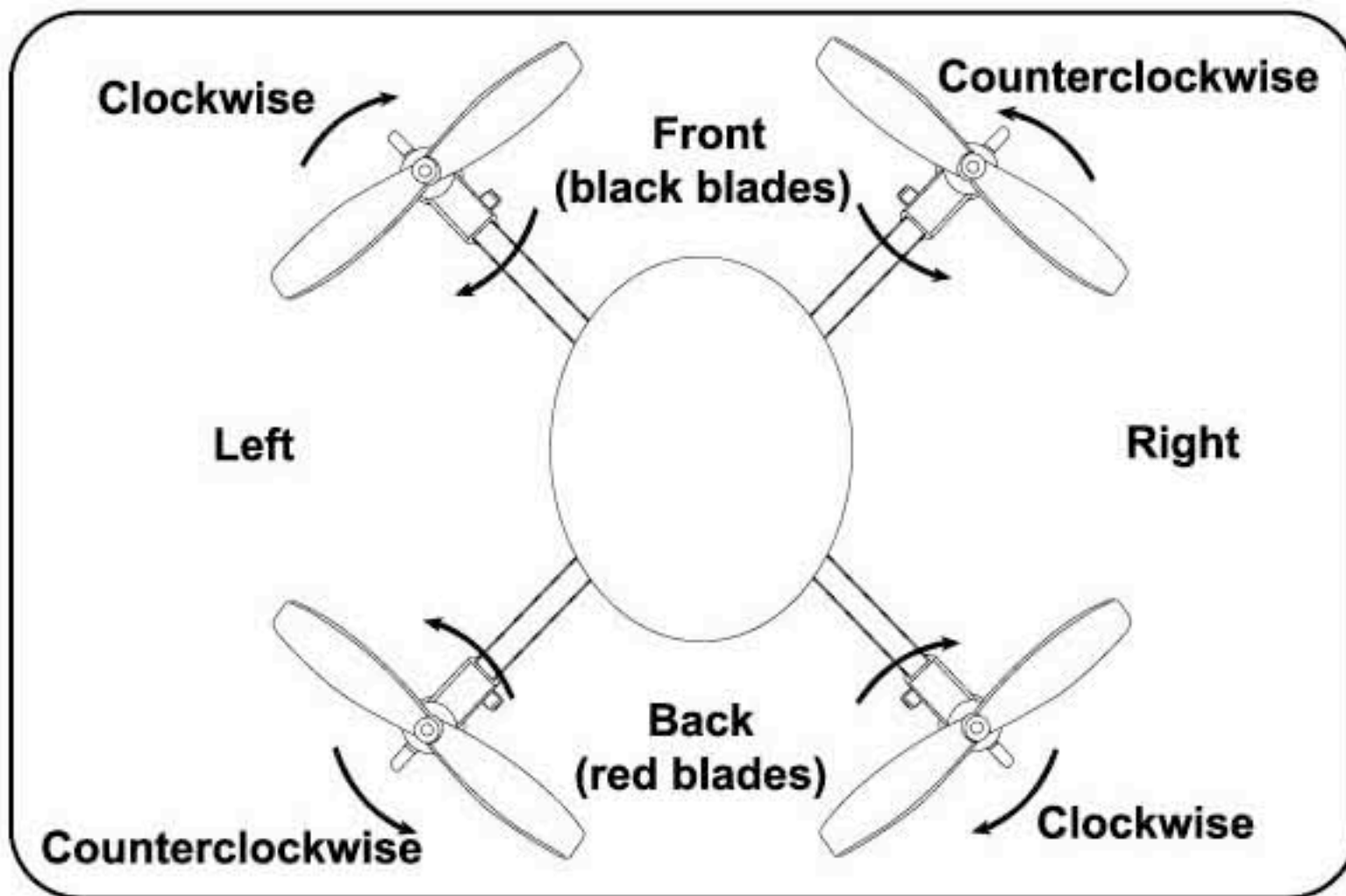
- Connect the USB charger to any USB plug such as a computer or wall charger.
- Disconnect the battery from Micro Drone then connect to the USB charger jack, the red light on the USB will indicate it has started charging.
- When charging is finished, the red light will turn OFF.
- Full charge takes about 60mins.

NOTE: Battery should be fully charged before storing.

Preparation for flight

- Put the battery into the battery compartment of Micro Drone; install 4 X AA batteries into the battery compartment of the remote controller.
- Slide the power switch of the remote controller to "ON" position. To activate the remote control and link the Micro Drone, place Micro Drone on a flat surface (making sure both controller and Micro Drone are on), slowly push up the throttle stick all the way to the top and then push it back down to the bottom and wait 5 seconds (repeat if necessary). Once you hear the controller beep that indicates they are linked.

- The indicator light on Micro Drone (under the shell) will flash rapidly when it receives the signal. It takes about 5 seconds to activate the gyro and sensors before the connection process is complete.
- To ensure steady flight, set the 3 trimmers to find tune the controls. The trim buttons are located aside to the left and right control sticks to set the turning, forward/backward pitch and side to side banking. Each time you click the trim button you will hear a beep and the digital display will show the value is tuned to. Note the trim buttons change depending on if it's in mode 2 or mode 4.
- Push the throttle up to around quarter or half way and Micro Drone will take off.



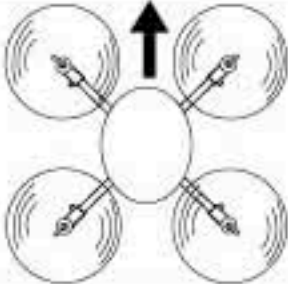
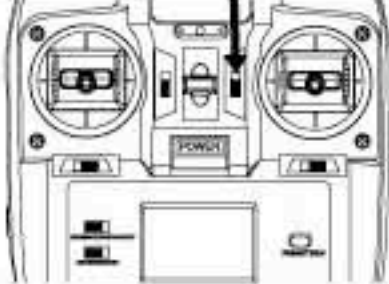
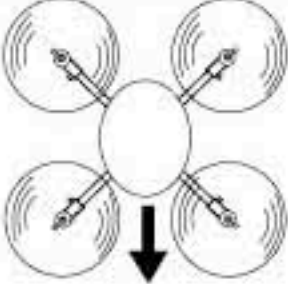
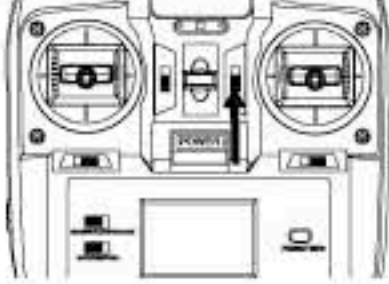
Each blade is a different shape so please ensure you are fitting the correct blade if replacing.

Operational Tips

- If the Micro Drone is drifting whilst hovering adjust the trim buttons carefully to keep Micro Drone balanced. Balance can be affected by the position of the battery or anything causing slight resistance to one of the rotors.
- When flying for the first time, find an open space and get the hang of the throttle and use the white lights and black blades to help navigate so you can tell which is the front of the drone.
- Please disconnect the battery after use.

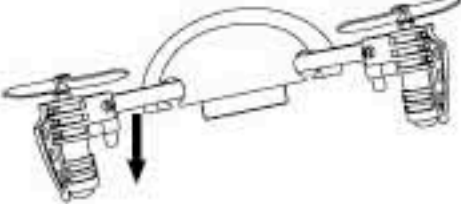
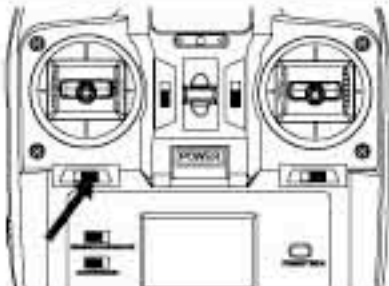
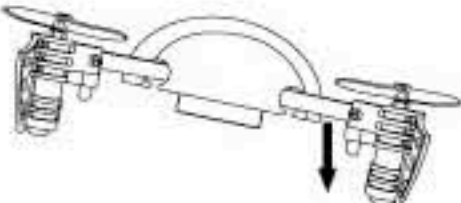
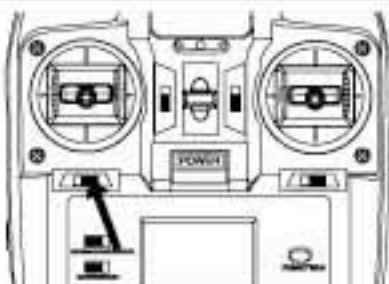
Trimmer Functions

MODE 2 and 4:

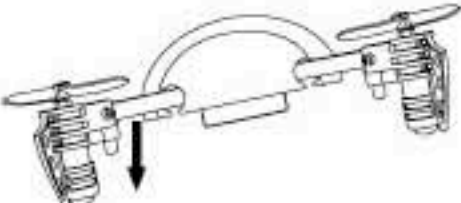
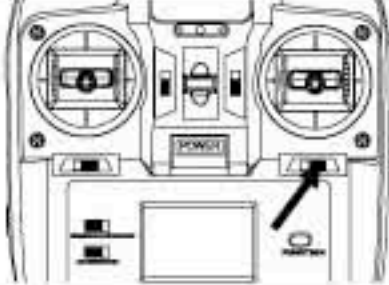
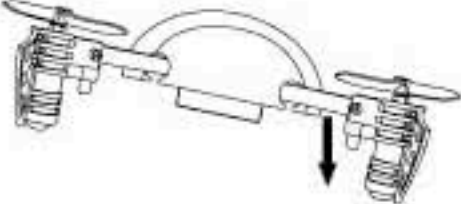
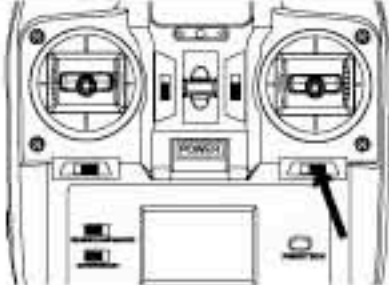
		If Micro Drone drifts forward, click the trim down until balanced.
		If Micro Drone drifts backward, click trim up until balanced.

Banking Trim (side to side)

MODE 2:

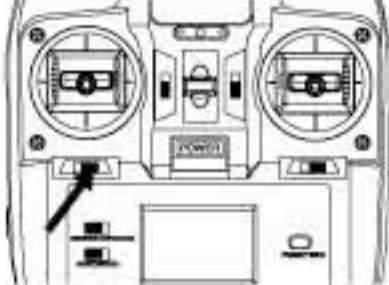
		If Micro Drone drifts left, click the left trim until balanced.
		If Micro Drone drifts right, click the right trim until balanced.

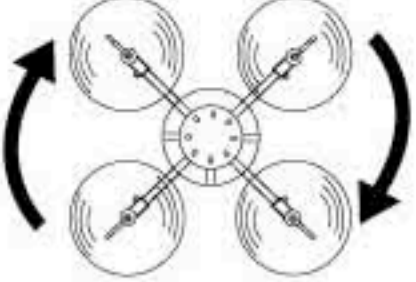
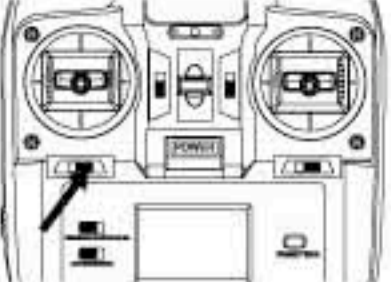
MODE 4:

		If Micro Drone drifts left, click the left trim until balanced.
		If Micro Drone drifts right, click the right trim until balanced.

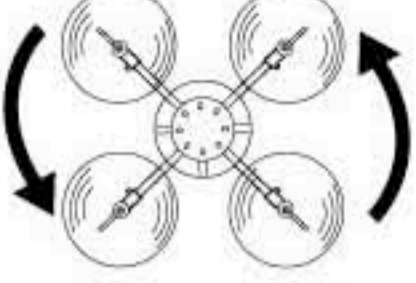
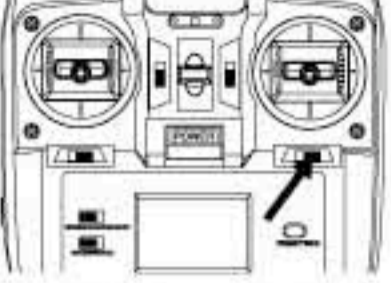
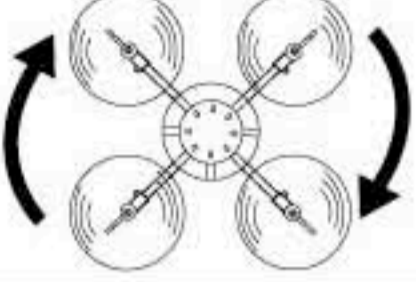
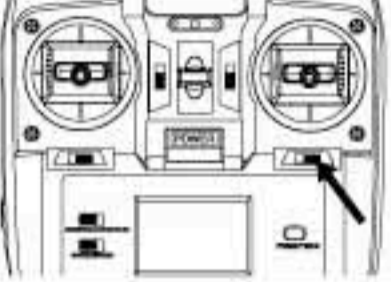
Turning Trim (clockwise or anti-clockwise)

MODE 2:

		If Micro Drone keeps turning counterclockwise whilst hovering, click the trim to the right until balanced.
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		<p>If Micro Drone keeps turning clockwise whilst hovering, click the trim to the left until balanced.</p>
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MODE 4:

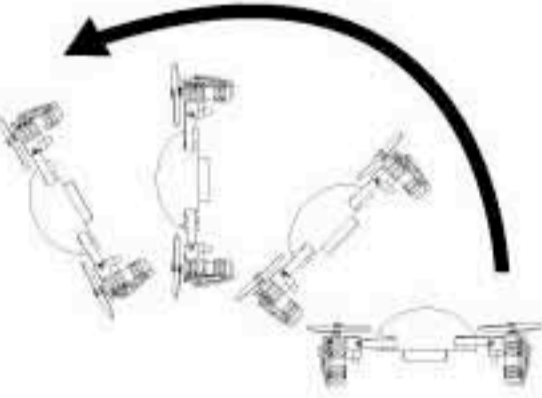
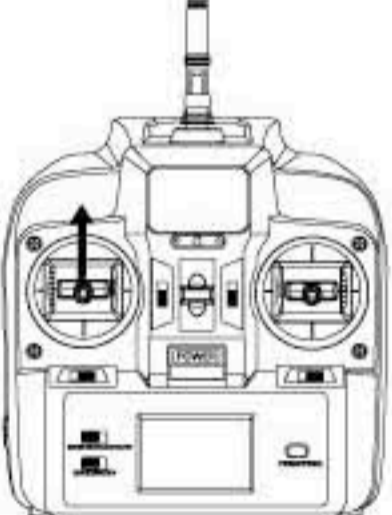
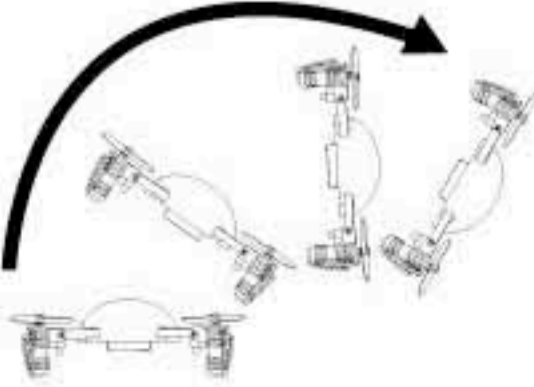
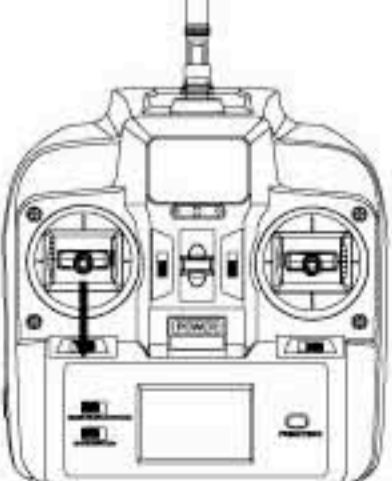
		<p>If Micro Drone keeps turning anti-clockwise whilst hovering, click the trim to the right until balanced.</p>
		<p>If Micro Drone keeps turning clockwise whilst hovering, click the trim to the left until balanced.</p>

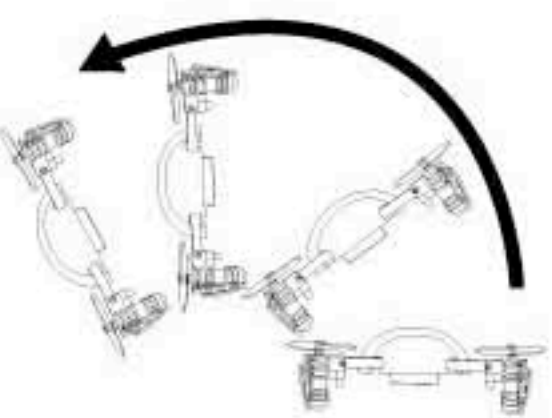
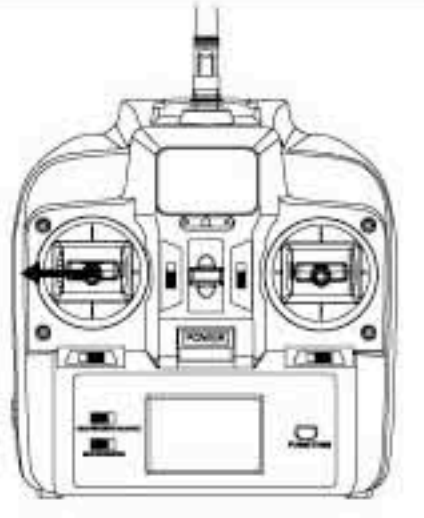
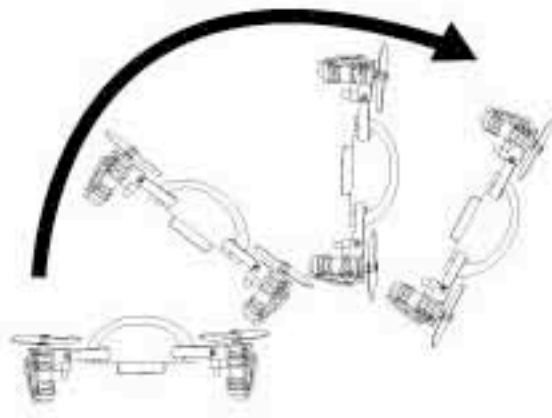
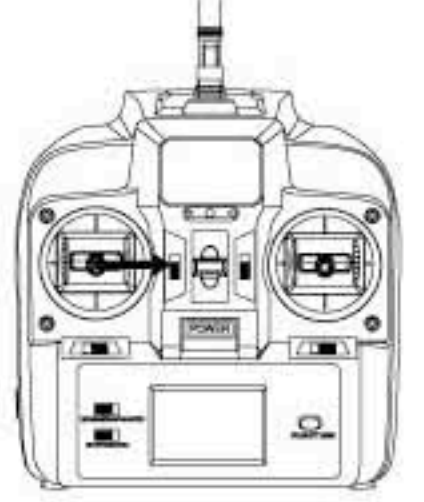
360 Degree Flips:

Micro Drone can perform mid-air flips with a specially designed, preprogrammed algorithm. To activate this, it must be switched into Stunt Mode, slide to the right.

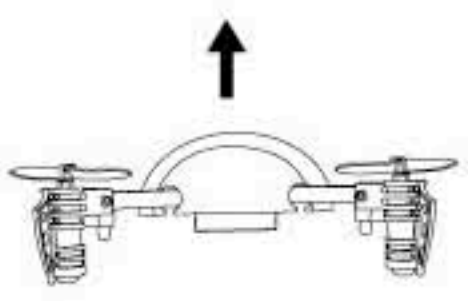
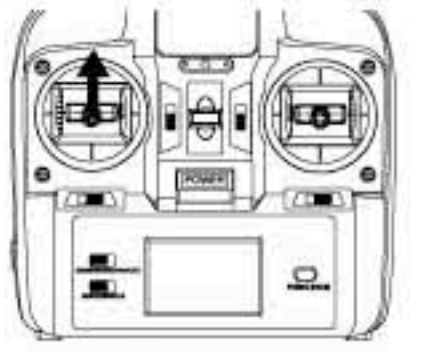
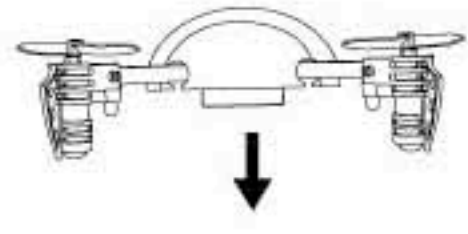
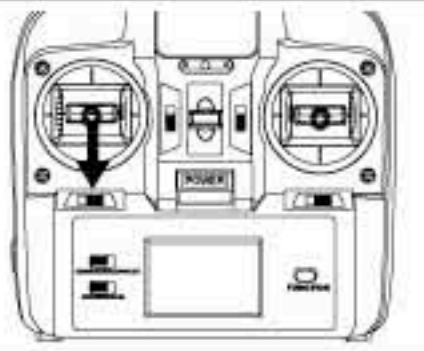
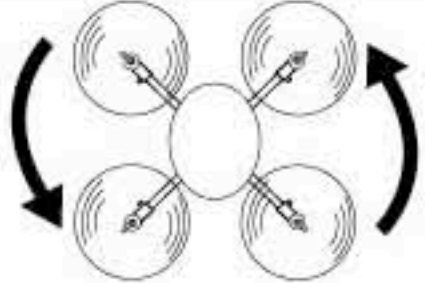
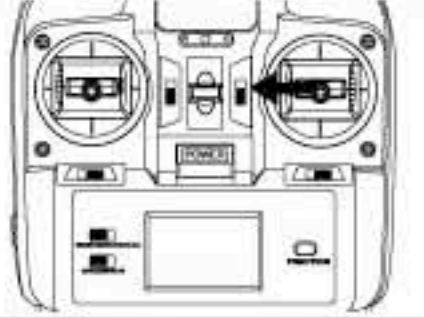
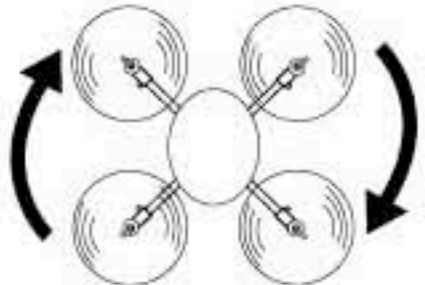
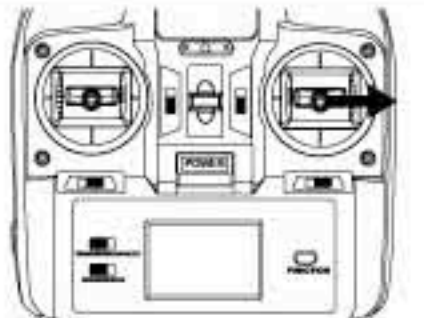
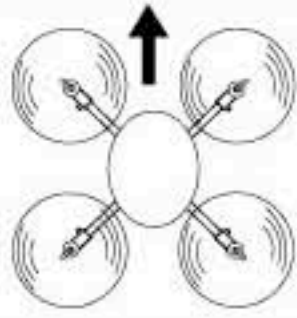
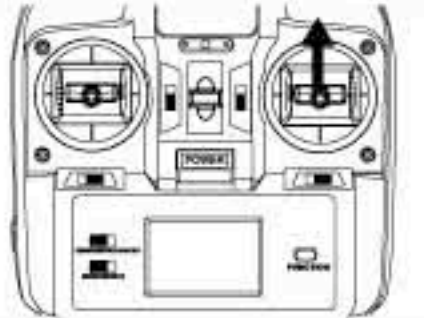
WARNING: in Stunt Mode, moving the control sticks will perform aggressive maneuvers and could cause Micro Drone to crash if not controlled carefully. If doing for the first time, we suggest familiarising yourself with the controls before attempting this. Hover Micro Drone at least 3 metres from the ground and when you are already, press the function button.

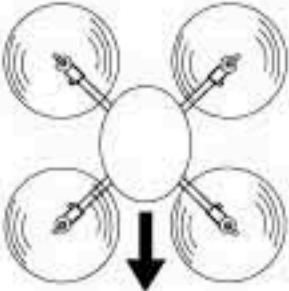
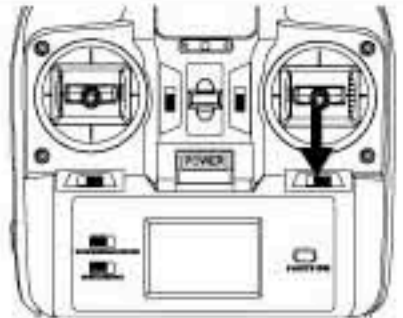
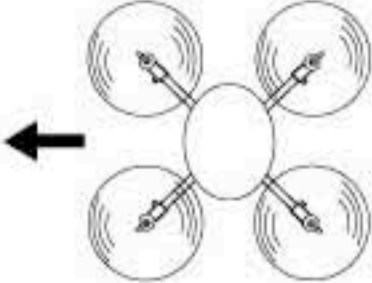
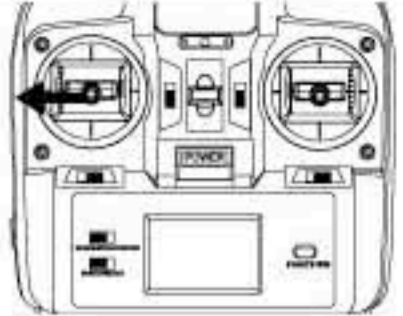
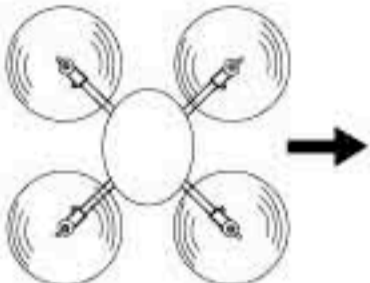
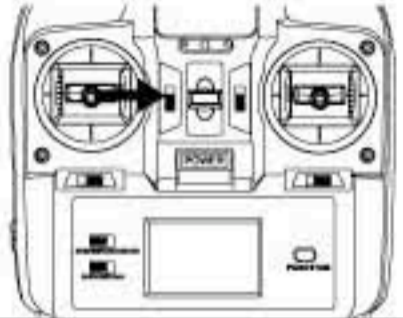
Aggressive Maneuvers and Flips

<p>Forward rolls</p> 		<p>Push the throttle up then push the right stick up to roll forward. Gently loosen to recover to the hover position.</p>
<p>Backward rolls</p> 		<p>Push the throttle up then push the right stick down to roll backwards. Gently loosen to recover to the hover position.</p>

<p>Left rolls</p> 		<p>Push the throttle up then push the banking stick left to roll left. Gently loosen to recover to the hover position.</p>
<p>Right rolls</p> 		<p>Push the throttle up then push the banking stick right to roll right. Gently loosen to recover to the hover position.</p>

Operating

<p>Up</p>		
<p>Down</p>		
<p>Left</p>		
<p>Right</p>		
<p>Forward</p>		

Backward		
Banking to the left		
Banking to the right		

Tips:

- For your first flights, note that the controls are highly sensitive and responsive - we recommend finding an open space and familiarising yourself with the controls.
- Before performing Stunts, find a place with a soft ground in case of crashing. If a blade breaks, pull it directly off the motor (use a pair of pliers if necessary) and push directly back on. Use the diagram on our website to see which blade is correct. Blades are available to order from www.extremefliers.co.uk.

Troubleshooting

See our troubleshooting page on www.extremefliers.co.uk



Happy Flying

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