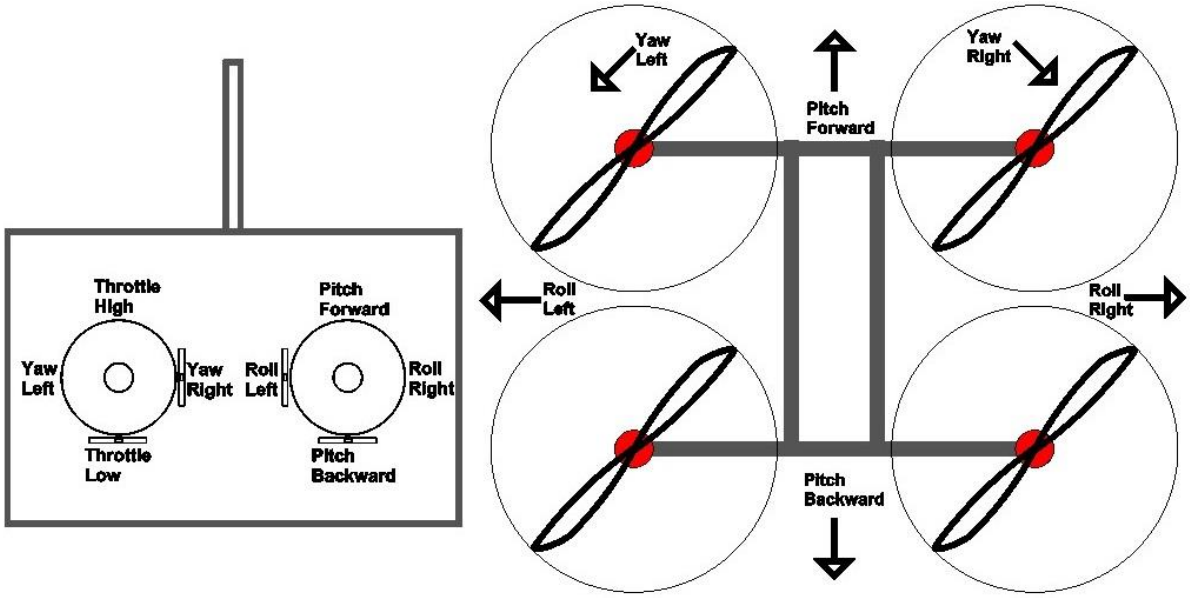
Drone Piloting Basic

Flying Controls:

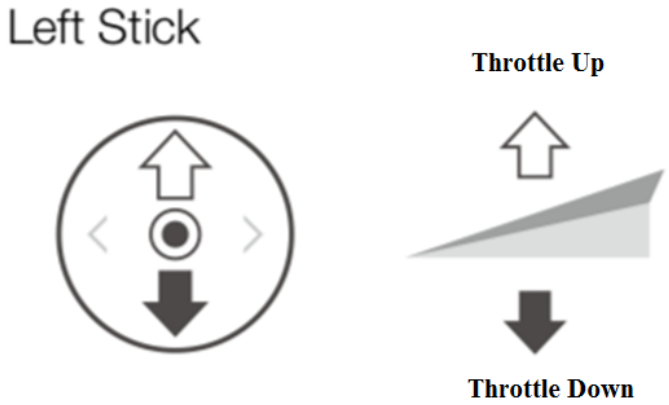
There are four main controls

- Throttle
- Yaw
- Pitch
- Roll



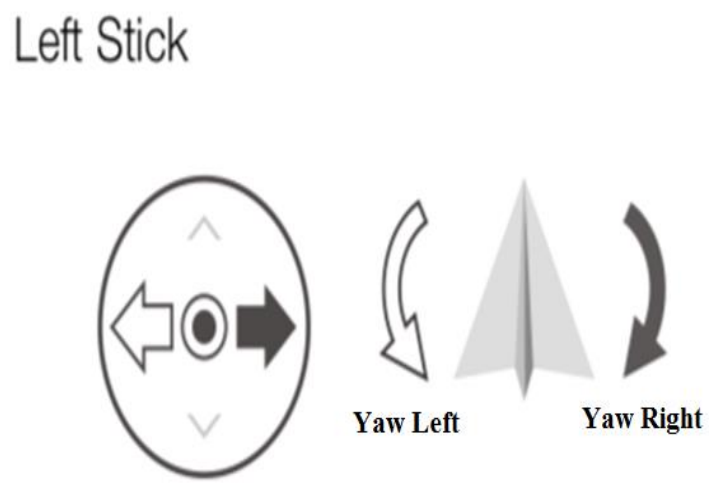
Throttle:

Throttle gives the propellers on your Drone enough power to get airborne. When flying, you will have the throttle engaged constantly. To engage the throttle, push the left stick forwards. To disengage, pull it backwards. Make sure not to disengage completely until you're a couple inches away from the ground. Otherwise, you might damage the Drone, and your training will be cut short.



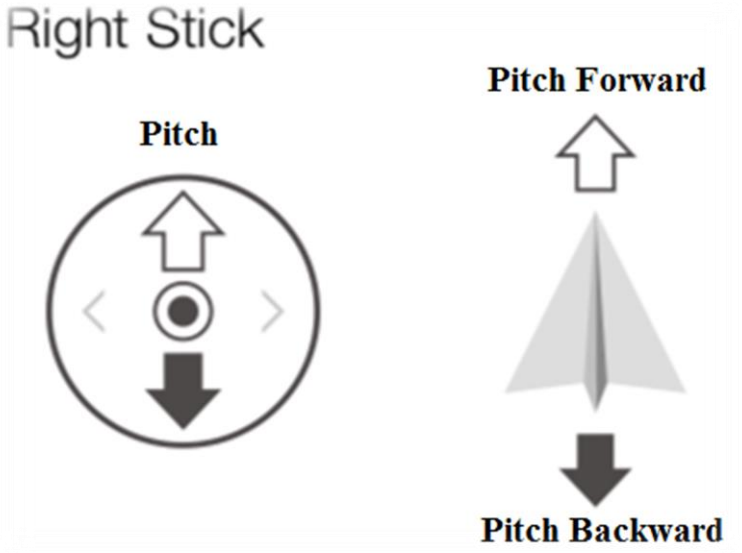
Yaw:

The rotational movement of the quadcopter is termed as Yaw and it comes into action when the diametrically opposing pairs of motors increase their speed relative to the other pair. In this case, the rotation speed of diametrically opposing pairs of motors is increased or decreased, varying the torque in the direction of rotation of that pair which causes the quadcopter to rotate in the direction of the increased torque.



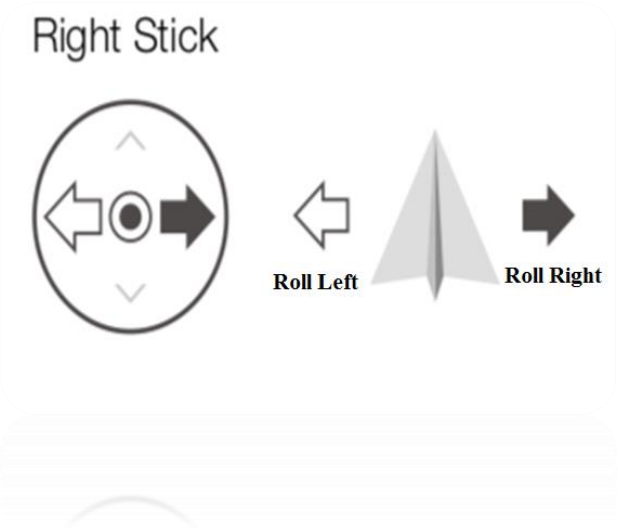
Pitch:

To fly in the forward or the backward direction we need to control the speed of rear motors relative to the front motors and the term used for this motion is Pitch. In order to pitch forward, the speed of rear motors of the quadcopter must increase relative to the speed of the front motors which 'pitches' the nose (front) of the quadcopter down and hence resulting in the forward movement. This can be achieved by either decreasing the speed of the front motors or increasing the speed of the rear motors. In a similar manner to 'pitch' backward, the speed of the front motors of the quadcopter must increase relative to the speed of the rear motors.



Roll:

For the side to side motion, the Speed of the right motors is controlled relative to the speed of left motors and the term used for this type of motion is 'Roll'. In order to 'roll' to the right, the speed of left motors of the quadcopter must be increased relative to the speed of the right motors. This 'rolls down' the quadcopter to the right side in a sideways swaying movement. Similar to the Pitch, this can also be achieved by either decreasing the speed of the right motors or increasing the speed of the left motors. In the similar manner to 'roll' left, the speed of the right motors of the quadcopter should be increased relative to the speed of left motors.



Mode 2 Tx Configuration