



YAW CONTROL

Learn basic controller functions and flight characteristics of the drone. Control the orientation of the drone using yaw rotation with and without sensors in Line of Sight (LOS). Students should be able to maintain steady altitude control and rotate the drone to complete this activity.

Activity Type	Basic Control
Activity Time	5-10 Mins
Student Groups of	1-6
Difficulty	Easy
Supplies	Safety Gear, Drone, Controller, Batteries, FPV goggles (optional)
Designated Flight Area	Clear area free of obstructions and moving air. Recommend atleast 10x10 ft.

PREFLIGHT CHECKLIST

Site Safety Inspection	
✔ Designate flight area	<input type="checkbox"/>
✔ Place signage and ensure area remains clear	<input type="checkbox"/>
Preflight Inspections	
✔ Inspect drone for any damage	<input type="checkbox"/>
✔ Debris or hair in the motors	<input type="checkbox"/>
✔ Inspect battery and verify voltage	<input type="checkbox"/>
✔ Insert battery until fully seated	<input type="checkbox"/>
✔ Connect and verify battery	<input type="checkbox"/>
✔ Apply safety gear	<input type="checkbox"/>

STEP #1

Power on your launch controller and drone.



STEP #2

Ensure the drone is in low speed and Normal Mode by flipping both switch A & C fully down.



Do not change flight modes during flight!

STEP #3

Ensure the left joystick (throttle) is in the down position on startup then bring your drone up to shoulder level at a safe distance.

STEP #4

Once at shoulder level, each pilot should use the left joystick (yaw) to apply left or right input to rotate the orientation of the drone. The camera is front of drone for orientation.



Use gentle pressure and fine movements to adjust the yaw.

STEP #5

Land and repeat this challenge 5 times.

STEP #6

Land and change to Sport mode by flipping switch A to the mid position. Then repeat steps 3-5.

STEP #7

Complete Post Flight Checklist.

Post Flight Checklist	
• Remove batteries and allow a cooldown (3 mins) <input type="checkbox"/>	• Ensure batteries are stored properly <input type="checkbox"/>
• Power down controller and FPV goggles <input type="checkbox"/>	• Store controllers with each designated drone <input type="checkbox"/>
• Inspect drone for any damage <input type="checkbox"/>	• _____ <input type="checkbox"/>

Power Up Mode: FPV Experience Students who have mastered this skill in Normal and Sport Mode may attempt the Power Up Mode and complete this activity with FPV Goggles. Ensure channel frequencies are set properly. Refer to FPV Channel Settings.

ROCKET DRONES CHALLENGE

YAW CONTROL

STUDENT COMPLETION CHECKLIST

Student's Name	Normal Mode		Sport Mode	
	LOS	FPV	LOS	FPV
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>