

PIC	Flight Engineer	Sensor Operator
<ul style="list-style-type: none"> - Create mission <ul style="list-style-type: none"> - Double checking altitude and speed settings. - Mission safety - Check connections between GCS and aircraft. - Retrieve Bramor 	<ul style="list-style-type: none"> - Pre-departure equipment check (chute, battery) - Catapult setup - Aircraft setup and launch - Flight safety - Catapult breakdown 	<ul style="list-style-type: none"> - Install and check sensors - Assist Flight Engineer as needed - Record flight info - Retrieve Bramor - Check data collected

PIC

Flight Engineer

Sensor Operator

All

Unpacking:

1. Kestrel ON
2. Define North DEFINED
3. State weather conditions STATE
4. Catapult UNFOLD
5. Catapult legs EXTEND
6. Catapult legs safety locks SECURE
7. Catapult middle lock SECURE
8. Catapult safety pin SECURE
9. Catapult on level ground CHECK
10. Winch rope EXTEND
11. Winch rope state CHECK
12. Breaking rope state CHECK
13. Bungee state CHECK
14. Rubber not armed CHECK
15. Wind direction CHECK
16. Combox antenna CONNECT
17. GCS Com-box ON
18. GCS Tablet ON
19. Combox battery CHECK
20. Tablet battery CHECK

21.	Record battery information	RECORD
22.	Tablet sound	ENABLED
23.	Bluetooth	PAIRED
24.	C3P	ON
25.	Payload sensor	SELECTED

Assembling:

1.	Airframe and wing connectors	CHECK
2.	Airframe on catapult	PLACE
3.	Wing joiners in the wings	PLACE
4.	Airframe antenna	CONNECT
5.	Wings on the air frame	CONNECT
6.	Winglets on the wings	CONNECT
7.	Wing gap tape	SEAL
8.	Pitot tube clean	CHECK
9.	Propeller	CHECK
10.	Sensor cable	CONNECTED
11.	Parachute hatch	REMOVE
12.	Formatted memory card	INSERTED
13.	USB key	INSERTED
14.	UAV battery	PLACE
15.	Battery elastic	SECURE
16.	Y connector attached to battery	CONNECTED
17.	UAV Battery	CONNECTED
18.	Motor Sound	PLAYED
19.	Camera settings	CHECK
20.	Hatch	SECURE
21.	Airframe linked to GCS	CHECK
22.	Parachute	POP
23.	Parachute	INSTALL
24.	Parachute hatch (close-open-close	CLOSED
25.	Parachute safety pin	REMOVED

Preflight:

1.	Mission	OPEN/CREATE
2.	Payload sensor selected	CHECK
3.	UAV battery	CHECK
4.	Communication	CHECK
5.	Satellites	MORE THAN 7
6.	Navigation map	LOADED

7.	Photo log	CLEARED
8.	Airframe from catapult	REMOVED
9.	Mode to manual	SET
10.	Servo	CHECK
11.	Propeller safety	CHECK
12.	Motor test	CHECK
13.	Mode to safe	SET
14.	Airframe	LEVEL
15.	Sensor initialization	SET
16.	Waypoints(speed & altitude)	CHECK
17.	Mission(T&L, P, R)	SET
18.	Takeoff point parm	CHECK
19.	Landing points parm	CHECK
20.	Auto camera switch	SELECT
21.	Mission	UPLOAD
22.	Failsafe	CHECK
23.	Sensor initialization	SET
24.	Airspeed(around 0 m/s)	CHECK
25.	Lens clean	CHECK
26.	Pitot cover	REMOVE
27.	Pitot test	CHECK

Launch:

1.	Trolley	LOCK
2.	Rubbers	ON
3.	Catapult safety	CHECK
4.	Catapult direction	CHECK
5.	CATAPULT	ARMED
6.	Airframe on catapult	SECURE
7.	Propeller	ALIGN
8.	Takeoff mode	SET
9.	UAV into takeoff mode	CHECK
10.	Leg on plate	PLACE
11.	Safety pin	REMOVE
12.	Safety-situational awareness	CHECK
13.	Catapult release	PULL
14.	Record Launching time	RECORD

Post flight:

1.	Record landing time	RECORD
2.	Record battery level	RECORD

3. Record flight summary info RECORD
4. Catapult breakdown START
5. Inspect parachute INSPECT
6. Pack Parachute PACK
7. Inspect any damage (lens, airframe) CHECK
8. Take UAV, and parachute back to GCS
9. Check for data CHECK
10. Pitot tube cover COVERED
11. Parachute safety pin PLACED
12. Remove battery REMOVE
13. Aircraft breakdown START
14. Seal tape in trash
15. Memory card REMOVED
16. Sweep area for any left equipment SWEEP