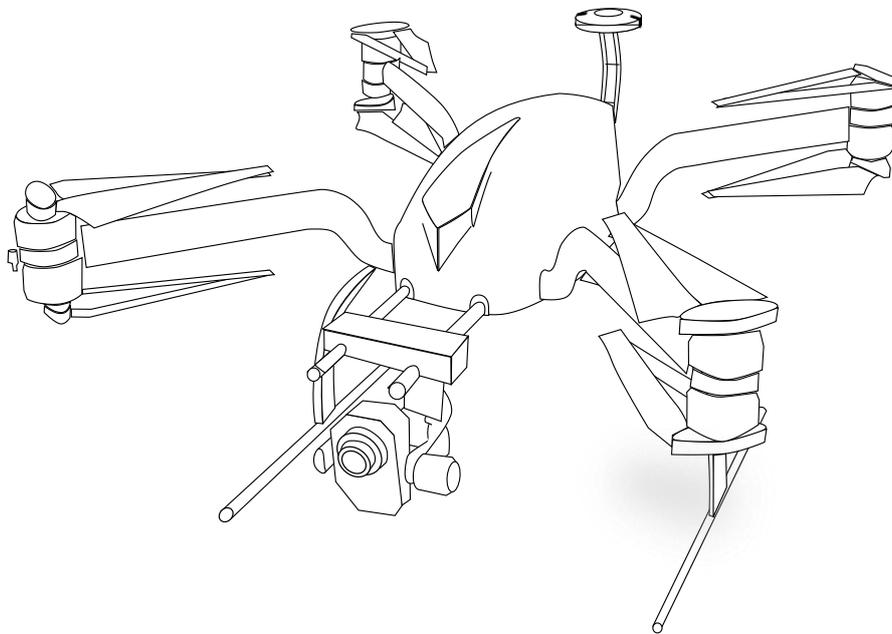

ScaraBot Endurance

Maintenance Guide



Release 0.0.2, March 10,2020

Before and After Every Flight

Pre-Flight Checklist

1. Check the motors are rotating free of external artefacts and smoothly.
2. Check the propellers are rotating free, tight and are not damaged.
3. Gimbal is properly attach and fix to the airframe.
4. Gimbal is moving free of artefacts and smoothly.
5. Gimbal is not vibrating.
6. Gimbal is connected to the Aircraft and it is recognized.
7. Check camera is reacting to user input.
8. Recalibrate the compass if necessary.
9. Ensure the SD Card or recording devices are connected and running.
10. Check the battery levels.
11. Ensure the Aircraft is balanced.
12. Check the battery is tight to the vehicle.
13. Check there is a GPS fix.
14. Ensure all screws are fix and tight.
15. Fix the hood properly to the vehicle.
16. Arm the vehicle and check if there is vibrations or noise.

Post-Flight Check

1. Ensure the battery is not too warm or wet.
2. Ensure the Aircraft or gimbal are dry.
3. Check every connector is tight and free from sand.
4. Check the gimbal cable is connected and tight.
5. Check the propellers are not damaged and tight.
6. Check the distance sensor is clean.
7. Check the GPS cable is not damaged and GPS is tight.
8. Check the Gimbal dampeners quality.

Properly Storage Recommendations

1. After Every Flight store the vehicle in its case
2. Store the battery in a dry safe case.
3. The ScaraBot Smart Batteries auto detect when they are in storage and set the proper voltage. Please charge the batteries before storage for avoiding degradation of the performance or damage.

Annual Maintenance

The annual maintenance is recommended to be performed at ScaraBot technologies factory or any other authorized facility.

1. Check airframe for cracks and/or breaks.
2. Check all internal components integrity (Flight controller, motor driver, remote control...).
3. Check connectors integrity.
4. Inspection of motors and arms.
5. Replace battery connector.
6. Clear dust and/or debris of aircraft.
7. Clear dust and/or debris of gimbal.
8. Clear dust and/or debris from GPS module.
9. Replace gimbal vibrations dampers.
10. Clear camera lens.
11. Clean, level or replace propeller
12. Clean motor for debris.
13. Check all moving parts.
14. Check all screws integrity and replace screw locking paste.
15. Re-calibration of all onboard sensors.
16. Update firmware of every components if new available.
17. Clean grime/dust/debris of every antenna.
18. Check antenna connection integrity
19. Check antenna uniformity
20. Check attachment points for integrity
21. Check GPS integrity
22. Check Remote control link integrity
23. Check Remote control sticks and potentiometer integrity
24. Check battery integrity.

*Perform a log of every annual maintenance.

Recommended replacement parts

1. Replace propeller every 200 flight.
2. Replace batteries every 800 cycles.
3. Replace gimbal dampeners every 300 flight