

UAV Safety Guidelines

Suggested by Elevated Element

During the Multicopter Build:

1. Use all tools and equipment correctly, responsibly and for their intended purpose.
2. Work area should be clear and kept organized.
3. Always build on a sturdy, flat surface.
4. Be especially mindful when carrying, passing and using cutting tools.
5. Only cut 1 wire at a time. This will prevent you from shorting out an electrical connection.
6. If soldering is required, avoid inhaling the fumes. Also, keep the iron tip clean using a damp sponge or wire pad, and use a stand designed specifically for a hot soldering iron.
7. Check daily that all batteries are in-tact and secure (no punctures, loose wires, etc.)
8. Store batteries in fire-proof battery bags, and have a fire extinguisher on hand.
9. Complete the entire build along with calibration and motor directional tests before attaching the propellers. Adding the propellers is the last thing to do before flight procedures.
10. Protective eye gear is recommended.
11. Have a First Aid kit with rubber gloves on hand.
12. Post safety guidelines along with emergency phone numbers in a visible area.
13. All participants will understand and agree to the safety guidelines.
14. Add to and adapt these build guidelines if necessary throughout the build process.

Pre-Flight and During Flight:

1. Follow all additional rules when applicable to the specific flying site.
2. Always fly in a safe and responsible manner.
3. Designate areas for take-off, flight, and landing, and establish a visible safety line.
4. Designate an area for spectators, and children are supervised by a parent or guardian.
5. Intentional flight behind the safety line is prohibited.
6. Fly in teams that include a pilot and assistant or spotter.
7. Follow a pre-flight checklist that includes a full equipment systems check.
8. Always fly within line-of-sight (must always be able to directly see the multicopter).
9. Never fly over or within 30 feet of: people, vehicles (parked or moving), power lines and any other structures.
10. Never fly over 400 feet in elevation, and full sized aircraft always has the right-of-way.
11. Never fly within 5 miles of any airport.
12. Never fly during an electrical or solar storm.
13. Never fly while taking medication, prescribed or otherwise that may impair the pilot.
14. Pilots who have a vision correction prescription will always wear their glasses or contacts.
15. An in-flight or powered multicopter will never be touched or grabbed by any person.