

Event38 Unmanned Systems

Preflight Checklist

- Add wings, battery and nose cover to plane
- Check Center of Gravity of Airplane
- Power on RC Transmitter in Hardware Manual Mode, then switch to FBW Mode
- Power on Airplane, hold still and level with slight pitch up until elevator ticks 3 times
- Confirm all control surfaces respond as expected both to orientation and transmitter input
- Add side hatch cover
- Connect to aircraft from ground station
- Power on video receiver and confirm video reception
- Make sure GPS has 3D lock
- Reconfirm control surface response
- Confirm motor spins to full throttle
- Set power at 75% throttle, throw firmly into the wind forward and angled upward about 30 degrees
- Increase power as necessary, guide the plane straight forward pulling half way up until it reaches an altitude above all nearby obstacles by at least 20 meters
- Release the right control stick
- Set to RTL mode
- Reduce throttle stick to 0% throttle
- Observe the aircraft as it flies around your position and watch for jerky movements or inability to maintain altitude for a few full turns
- Maintain visual contact with the aircraft throughout the entire flight