

Launch and Recovery

The Draganflyer X6 Helicopter is intended to be operated from 0'AGL to no greater than 400'AGL. The procedure for a typical Launch and Recovery is described below:

Aircraft Launch:

1. Physically inspect aircraft to insure air worthiness.
2. Select an open area clear of immediate obstacles
3. Clear the area of any unnecessary/unauthorized personnel
4. Pilot in Command (PIC) and Observer scan the area and sky to confirm take-off conditions are clear.
5. DX6 Transmitter's antenna is checked to be secure and transmitter is powered on.
6. DX6 aircraft is placed on the ground and powered on.
7. DX6 Transmitter is "logically" locked and joined to aircraft, accepting the aircraft serial number and locking communications.
8. DX6 Transmitter clearly displays aircraft telemetry. PIC confirms battery voltages, signal strength and quality of GPS.
9. PIC performs RF range check
10. PIC clearly announces the "arming" of the aircraft meaning - the motor control circuits are enabled.
11. Observer and PIC once again recheck the immediate area and sky
12. If clear for take-off, the PIC clearly announces "Take-off" and engages motors
13. PIC brings aircraft into a stable hover at approximately 6' out of ground effect and checks all flight control, scans battery voltages and data-link signal strength.
14. PIC and Observer fly the mission

During flight, both the observer and PIC scan the sky and note any aircraft, aerial obstacles or weather that could cause a safety hazard. PIC constantly scans telemetry data from the aircraft monitoring battery voltages, RF signal quality, altitude, attitude and GPS data.

Aircraft Recovery:

Because we're talking about a Vertical Take-off and Landing (VTOL) the

landing/recovery is typically taken place at the same location as take-off.

1. The PIC and observer clear the area of any unnecessary people
2. PIC and observer discuss the approach and scan the area
3. PIC clearly announces "landing"
4. Aircraft altitude is reduces as the aircraft reduces speed and approaches landing area.
5. Aircraft transitions into hover over target landing spot and aircraft lands
6. Motors are turned off
7. DX6 Helicopter is powered off
8. DX6 Transmitter is powered off
9. DX6 power pack is removed from aircraft

At this point the aircraft is either put away completing the mission or a new battery pack is installed. The same procedure is followed for take-off and continuation of the mission at hand.