

# Total Aerial Imaging Inc

## Pre-Flight Checklist

Feb 12, 2020

### Before Leaving

- ✓ **Know and understand the airspace at the flight location.**
  - Obtain *LAANC* authorization and/or unlock Geo-space as necessary.
- ✓ **Equipment Check:**
  - Firmware up-to-date.
  - Batteries visually checked for bloating or cracks and fully charged.
  - Remote controller fully charged.
  - FPV viewing device charged.
  - Propellers clean and free of chips or cracks.
  - Lens Clean.
  - SD card inserted in drone.

### On-Location

- ✓ **Situational Awareness:**
  - Visually check the weather situation.
  - Visually check above and 360 degrees around takeoff location.
    - \*Above - identify power lines, trees, antennas, towers, bird activity.
    - \*Around - identify buildings, people, animals.
  - Identify the take-off/landing spot (away from sources of electromagnetic interference).
  - Identify an alternative/emergency landing location.
  - Phone apps to gather additional information prior to the flight:
    - \**Airmap for Drones*
    - \**Kittyhawk*
  - Check incoming weather with phone apps like:
    - \**UAV Forecast*
    - \**Windy*
    - \**Accuweather*
  - If in a mountainous, coastal, or urban area, check app *Flight Radar 24*, especially for small planes and helicopters.
  - Set phone or tablet viewing device to *Airplane Mode* just prior to the flight.

### ✓ **Flight Objective:**

- Identify your subject and the story you want to capture with your camera.
- Visualize your flight distances, altitudes, camera placements.

### ✓ **Prepare the GO 4 app:**

- Remove gimbal protector then start drone battery.
- Format Micro SD card in the drone.
- Prepare both photography and video settings using the *Advanced Camera Menu*.
- Set the appropriate *"Return-to-Home"* altitude.
- Monitor the radio frequencies in the immediate area using the *HD Menu > Custom*. Select and set a frequency and custom channel if the channels are congested.
- Confirm the battery cells are level in the *Battery Menu*.
- Calibrate the compass if the drone has been taken to a new location. (Keep the remote controller and other electronics 5-10 feet away when calibrating the compass.)

### **Take-off**

- Make a final visual check all around for unexpected hazards.
- Listen for unexpected hazards.
- Confirm the satellite lock has been achieved.
- Start motors.
- Confirm home location has been marked.
- Lift the drone off ground to about 10 feet to test control sticks and confirm the airworthiness.
- Fly the mission.