

PREFLIGHT	
Determine Flight Crew  Safety glasses  Propeller guards for dangerous or indoor spaces  Shadow protector  Orange cones  Landing pad  (VO) Airmap approval - Ceiling:Radius	Flight crew jobs  PIC (Pilot in Command)  All responsible  VO (Visual Observer)  Report to PIC  Confirm checklist  Safety spotter(s)  Inform public/PIC  Equipment manager  Equipment check  Care for equipment
License or certificate with PIC during flight  • Trust certificate - recreational flight -	
• Part 107 License - commercial flight -	
Low chance of rain (Less than 10%)	
Wind less than drone can handle - see manufacturer recommended -	
Clouds more than 500' above your LAANC approved ceiling	
At least 3 miles visibility	
Twilight - Not 30 minutes before or after civil twilight -	
Safety vest -basic/recreational or FAA drone pilot labeled vest/commercial -	
Discuss flight mission with flight crew	
• Mission - What is your goal? What are you aiming to accomplish by this fli	ight?
• Obstacles - Power lines, trees, people, structures, fences, etc?	
<u> Aircraft Check</u>	
Registration sticker visible	
Check for issues with aircraft	
• Frame, propellers, gimbal cover, gimbal brace, camera, landing gear (Gear H	Badge)
SD card inserted properly	
Camera lens clean and ND/Polarized lens if needed	
Battery(s) full	
• Scout battery (Checking things out. Looking around at what you want to see)	)
• Mission battery (Accomplishing the mission shooting the pics/video you wa	ant)

• Backup battery (Just in case you need a backup)





## Power Up

	Transmitter battery is full
	Confirm camera settings
	Transmitter antennas facing drone
	Flight application is running and connected
	Flight area is clearly marked with cones if needed
	Verify connection between drone and transmitter
	Calibrate IMU or compass if necessary
	At least 7 satellites connected to transmitter
	No people potentially to be flown over during mission (Ensure clear flight area)
	Transmitter mode set to safest mode using most sensor tech as possible
1:	ight Time
L	VO voice commands if VO present. Otherwise, PIC confirms.
Ļ	I. "Your ceiling is"
L	2. "Keep transmitter antennas facing drone flat"
	3. "VLOS and be sure not to fly over people"
L	4. Check for potential distractions during mission (social media, people, annoyances)
L	5."PIC, you are clear for takeoff"
L	6. "Take-off and hover for at least 30 seconds or home point recorded"
	7. "Confirm 7 satellites"
	8."Is your flight application working properly?"
	9."Speed is always minimal. No erratic movements. No time for risk PIC"
	IO. "Obstacles clear"
	II. "Head to your mission"
	I2. "Check camera settings and histogram"
	] I3.VO watching for possible issues (PIC head on swivel if no VO)
	] VO ringer on for possible ATC contact (PIC if no VO)





## Emergency Procedures

PIC actions for loss of aircraft control or pilot not feeling well.

"Flight crew (or VO), we have a problem! (Note problem) Prepare a clear area for landing!"

- · Try to note the height and location of the drone
- Maintain VLOS as long as possible
- Change to Atti to regain
- Activate RTH (Return to Home)
- Turn off/on transmitter to recover control
- Last resort "power off motors"
- Inform police and ATC (Air traffic Control) if necessary
- If necessary from property damage or injury, inform the local emergency services.
- If necessary, contact FAA Regional Operations Center within 10 days

## Person enters the flight area

If an individual not part of the flight crew enters flight mission location..

- VO or crew should notify PIC immediately
- VO or crew if possible, should notify the individual that they are in a flight area and request they please remain in position so the pilot can safely land
- VO or crew assist in finding safe landing area
  - if individual is further than 30 meters from landing spot, land immediately
  - if individual is within 30 meters from landing spot, pilot should select an alternate site to safely land
- o Entire crew decide a new place to fly if possible

## <u>Post Flight</u>

Power down drone and transmitter
Check drone structure for abnormalities, cracks, and clean where necessary
Remove propellers and SD card. Send pics to a file or cloud.
Pack the drone in a secure case and store properly
Mission debrief with VO or crew
If commercial, edit phots/videos and deliver to customer within 24 hours

