

Mission Planning	Launch
Confirm operational airspace <i>Class G under 400 ft AGL</i> <i>Class B, C, D, E (obtain waiver)</i> <i>COA or Part-107 rules?</i> Check TFRs Check NOTAMs Consider nearby air traffic Determine highest obstacles in AOR Charge all batteries and devices Format SD cards Weather assessment <i>Visibility >3SM / Ceiling > 500 FT / Winds</i> Plan flight route and LZ <i>Avoid non-participating persons</i> Establish PIC and Observer responsibilities Brief comms plan Brief video plan Conduct crew safety brief <i>Consider security for crew</i>	<i>Confirm launch area is clear above</i> Announce "Clear Prop " <i>Start Motors and listen for abnormalities</i> Announce "Launching " Lights..... ON as appropriate <i>Apply power and climb to safe altitude</i> Recording.....START <i>Conduct 360 deg clearing turn</i> Proceed to operational site
	Return and Landing
	Announce "Returning to home " RTH or fly to LZ.....INITIATE <i>Ensure LZ is clear, lighted, and selected</i> <i>Remain at safe altitude for return route</i> Once visually acquired, position over LZ Announce "Landing" <i>Rotate camera to avoid NADIR landing</i> Video recording.....STOP Descend Once PROP STOPS! Aircraft batteryTURN OFF & REMOVE
Pre-Flight	
<u>Aircraft</u>	HOT SWAP PROCEDURE
<i>Check props for damage and orientation</i>	Check motors for excessive heat
<i>Check legs and fuselage for damage</i>	Place fully charged battery in aircraft
<u>Batteries</u>	Put aircraft back on LZ
<i>Check flight batteries power level</i>	Ensure link with GCS and software
<i>Check batteries for bulging or damage</i>	Announce "Clear Prop"
<u>Camera</u>	Resume LAUNCH checklist
<i>Remove gimbal lock / cover</i>	Terminating Flight
<i>Clean camera lens</i>	Turn off GCS and Mobile Device
<i>Check gimbal and sensor are secure</i>	Remove SD Card from aircraft/sensor
<i>Insert SD card</i>	Install Gimbal lock
<i>Install ND Filter if necessary</i>	Post Flight
<u>GCS</u>	Inspect all components
<i>Link mobile device with GCS</i>	Check motors for debris
<i>Check antennas and position properly</i>	Check propellers for damage
Insert aircraft battery	Check aircraft body for damage
Place aircraft at LZ	Confirm all components stored in case
Turn on aircraft/GCS/mobile device ***	Upload SD card to secure medium.
1. ___ 2. ___ 3. ___	Additional Considerations
Ensure updated software	Sterile Cockpit for crews while flying
Ensure IMU and Compass calibrated	Maintain VLOS and avoid other aircraft
Set RTH altitude and command	
Set max Alt / Range/Speed	
Select proper flight mode (P/S/C etc.)	
Mission Equip ready (night ops)	
***IAW Manufacturer checklist	

EMERGENCY		PROCEDURES	
Loss of Link / C2 Fail		GPS Failure	
<p>Announce....."Link Lost"</p> <p>Reposition GCS Antennas to optimum orientation</p> <p>Move GCS to gain better LOS to vehicle</p> <p>Move GCS away from metal stuctures/trees</p> <p>Confirm remaining battery power level of GCS</p> <p><i>Plug in GCS if necessary</i></p> <p>Check aircraft battery level and location</p> <p><i>If signal regained,</i> Continue flight if safe to do so</p> <p><i>If signal intermittent,</i> Initiate RTH or Land Immediately</p> <p><i>If signal is NOT regained,</i> Prepare LZ for returning aircraft</p> <p>Note range, bearing and GPS Coord of aircraft</p> <p><i>If aircraft does not return to home</i> Initiate lost aircraft procedures</p> <p>Notify FAA</p>	<p>Flight mode "Manual" or "Atti"</p> <p><i>Aircraft will NOT auto RTH</i></p> <p>Pilot should note aircraft bearing from GCS</p> <p>Climb to safe return altitude</p> <p>Fly reciprical heading to Acft bearing</p> <p>Visually fly aircraft to LZ and land</p>		
		Inadvertant IMC	
		<p>Confirm IMC with camera and eyes</p> <p>Reverse course 180 degrees</p> <p><i>If climbing prior to IMC, DESCEND</i></p> <p><i>if descending prior to IMC..... CLIMB</i></p> <p>(CONSIDER TERRAIN AND MAX ALTITUDE)</p> <p><i>If visibility regained,</i> Continue flight if safe to do so</p> <p><i>If aircraft is still IMC,</i> Inititate RTH function</p> <p>LAND as soon as practical</p>	
		LOW Battery	
<p><i>NOTE: This guide is not specific to any manufacturer. Familiarize yourself with the programmed actions of your aircraft prior to flight.</i></p>		<p>Aircraft will warn, then return to home, and/or land immediately</p> <p>Pilot typcially has control of lateral movement, but not altitude. Maintain control and guide aircraft to a safe LZ</p>	