

## M600 Pro / M5000 Acquisition Checklist

### GNSS Reference Station

- Batteries charged?
- Tri-pod leveled?
- Height from ground to ARP measured?
- Set to log at 1 Hz?
- Powered on?
- Receiving satellites?
- Logging observations?
- Pictures of the setup taken?

### M600 Pro / M5000

- All batteries charged to 100 percent?
- Center of Gravity (COG) with payload checked?
- Controller powered on?
- Drone powered on?
- iPad powered on and connected to controller?
- Lightbridge 2 is connected to drone (green LED on TX)?

### Litchi

- Litchi open and running?
- Flight plan loaded (select mission -> load map)?
- Waypoints verified?
- Flight plan speed verified?
- Flight plan altitude verified?
- Flight plan curves verified?
- Flight plan course heading verified?

### Rover

- Dovetail between rover and UAV secured?
- IMU to GNSS antenna offsets measured/verified?
- Vehicle body rotations verified?
- LiDAR transform (translation/rotation) verified?
- Camera transform (translation/rotation) verified?
- LiDAR acquisition settings set (PRR, LPS, return mode)?
- Camera acquisition settings set (trigger by interval/distance)?
- Connections to Nav box secure?
- GNSS antenna cable/s connected to Nav box?
- Wi-Fi bullet powered and connected to laptop?
- Able to connect to SpatialExplorer via Wi-Fi?

- Able to connect to Nav box via SpatialExplorer?
- SpatialExplorer Runtime initiated?
- Satellites confirmed in SpatialExplorer?
- Latitude/Longitude confirmed in SpatialExplorer?
- LiDAR cover removed?
- Camera lens cap removed?
- LiDAR sensor powered on?
- Camera powered on?
- LiDAR sensor activates/deactivates?
- Camera triggers (activates/deactivates)?
- Camera has SD card?
- Camera SD card cleared?
- Nav box has enough free space?
- Pictures of system taken (must show LiDAR/IMU orientation)?

### Takeoff

- Aircraft batteries installed and secured?
- Check motor blades tension?
- Check motor blade screws?
- Aircraft at takeoff location?
- Aircraft on level ground?
- Nav box switch to drone power?
- Static alignment complete?
- Runcam/FPV camera powered on?
- Runcam/FPV camera recording?
- GPS Ready to Go in Litchi?
- Litchi flight plan is loaded and locked?
- No warning messages in Litchi?
- Aircraft heading on Litchi map verified?
- Aircraft antennas oriented properly?
- Transmitter antennas oriented properly?
- Personnel behind the PIC and clear of aircraft?
- Ground and airspace clear of traffic (make radio calls if applicable)?