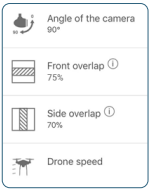
EQUIPMENT

- Drone
- SD cards
- Batteries (charged)
- Remote control (RC/charged)
- Mobile device
- Appropriate wire to link RC and mobile device

MISSION PLANNING

- Area is clear of obstructions (powerlines, trees, steep terrain changes, crowds, etc.)
- Check airspace and obtain LAANC authorization
- Power on RC
- Power on Drone
- Connect RC to mobile
- If no LTE, connect hotspot
- Open **Pix4Dcapture app**
- Tap SETTINGS button
- Ensure *Units* are set to **Feet**
- Select POLYGON MISSION (For 2D maps)
- Establish mission
- Tap the **center of the screen** for new mission
- Tap to adjust mission's shape
- Tap to add new nodes
- Drag a node near a partner node to delete it

- Set *Flight altitude*: **100ft** or **2-times the tallest nearby structure**
- Tap button
- *Angle of camera:* **90°**
- *Front overlap:* **75%**
- *Side overlap:* **70%**
- *Drone speed:* **Normal**



FLIGHT

- Tap START button
- Tap Next > button
- All green checkmarks populate the *flight checklist*
- Tap START button
- Confirm drone is flying mission autonomously
- Maintain visual line of sight
- Home position clear of obstructions before landing
- Following mission, allow drone to return to home position, descend, and land autonomously
- Power off drone, RC, and remove mobile link

POST FLIGHT

- Create a new folder on a computer
- Remove SD card from drone
- Connect SD card to computer
- Copy images to the created folder on the computer

MAP PROCESSING

- Open **Pix4Dreact**
- Click
- Set *units* to **imperial**
- Click +
- Click IMPORT IMAGES
- Navigate to folder where the images were copied
- Hold the **Ctrl** button down and Press the **A** button on the keyboard to select the images
- Click the **open** button
- Click START PROCESSING

POST PROCESSING

Hold down the **left-click** of mouse to pan around

Scroll the **mouse wheel** back and forth to zoom in and out

The following tools are available on the left side of screen:

Move (arrow button):
Enables navigation throughout the map

GPS (crosshair button):
Displays a GPS position on the map when clicked

Measure (ruler button):
Enables relative measurements of lines or areas

Mark (location button):
Enables placement of discrete points, lines, or polygons on the map

EXPORT

- Click EXPORT
- For a orthomosaic, select **GeoTIFF**
- For a PDF report, select **PDF**
- For a screenshot, select **JPG**
- Click EXPORT
- Navigate to the project folder
- Click the **Select Folder** button to save the file(s)
- Open a *File Explorer* window
- Navigate to the project folder
- Locate the orthomosaic, report, etc.