











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 
- 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*: **10x height of highest object** or highest legal flight height, whichever is smaller
- Minimum overlap** of 80% (Frontal and side)
- Tap  button
- Angle of camera*: **90°**
- Drone speed*: **Normal**





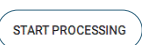
FLIGHT

- 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 
- 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 

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 
- For a orthomosaic, select **GeoTIFF**
- For a PDF report, select **PDF**
- For a screenshot, select **JPG**
- Click 
- 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.