DJI M300 Matrice setting for L1 LiDAR Camera

Manual Flight Pre-Flight Check with Suggested settings for L1 LiDAR Camera:

Side Overlap = 20, but 50 may be optimal

Course Antle = 0

Margin = 0

Flight Height = 200 Ft / 280 Ft

Flight Height of 260 Ft Altitude = 1 Centimeter Image Resolution (Suggested setting)

Flight Speed = 18 MPH

Elevation Optimazation = Used for Photogammetry

Payload Settings

      Use Single for Ope Field type missions

      Use Double for Urban or areas with some Trees

      Use Triple for Woods location with abundance of Trees for better coverage

Scanning Mode: Repetitive / Non-Repetive

70* x 70* Pedal pattern is non Repeating

Swing pattern / Figure 8 or Infinity Shape is Repetitive and used for Mapping for better coverage

RGB Coloring – Turn On

Vector Based vs Orthometric based

RTK – Fixed when signal is Ready

Photogammetry – P1 Camera Specs

Flight Height = 270 Ft At this height, equates to 1 Centimeter Pixels

Flight Speed = 20 to 25 MPH

Side Overlap = 70%

Front Overlap = 80%

DJI Terra Software

Lidar Reconstruction – Point to folder on disk after copying data from SD card to Network drive location

Export data in Meters from Terra

Transformationn is in end user software, like AutoCAD or ArcGIS Pro