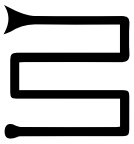
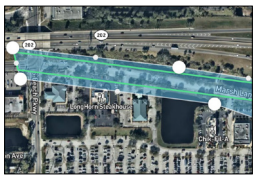
Explanation of Unmanned Aerial Vehicle (UAV) Flight Plans

UAVs are flown manually and are controlled by programs that fly the aircraft in specific patterns, and at rates of speed and altitudes in order to accurately capture images and data.



AREA SURVEYS

Produces high-resolution orthomosaics, digital elevation models and 3D point clouds. Pattern is used to collect images and data for stockpile measurements.



CROSSHATCH SURVEYS

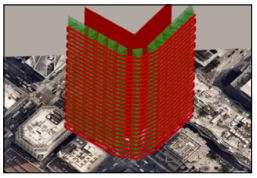
Automatically sets the drone camera at a 35-degree angle, enabling the capture of oblique imagery from four directions, producing detailed point clouds, and 3D meshes of vertical structures.

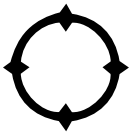
PERIMETER SCANS

Flies the UAV around facades and structures at multiple elevations, capturing vertical and oblique imagery perfect for creating detailed 3D models.

VERTICAL SCANS

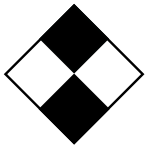
Captures walls and facades to create rich point clouds, including steep mines and quarries, dams and towers. Used for quality control, planning, and progress monitoring of vertical and sloped structures and geography.





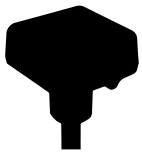
INSPECTIONS

Systematically takes high-resolution inspection photos for a closer look at structures and critical infrastructure, especially bridges.



GROUND CONTROL POINTS

Ground control points established on the job site and the coordinates are entered into the processing program to create accurate deliverables.



REAL-TIME KINEMATIC POSITIONING (RTK)

Real-time kinematic (RTK) GPS is a powerful technology that is used to provide highly accurate positioning and navigation data.

SKY DATA UAV

PART 107 LICENSED PILOTS • COMMERCIALLY INSURED

4001 SW 108 Terrace • Davie, FL 33314

954.647.3924 • www.SkyDataUAV.com • david@SkyDataUAV.com