



Engineering Surveying & Mapping

**UAV(Drone) RTK/PPK
Based Photogrammetry Survey**



Goodland Geospatial

When surveying challenging terrain, drones make it no longer necessary for human operators to physically access and measure points in hazardous or difficult-to-reach locations.

The drone is automatically deployed and landed, and the PC Software analyzes the aerial data, creating highly accurate, best-in-class orthophotos and digital elevation models to assist in surveying reports. Additionally, while traditional surveying methods require meticulous measurement, preparation, and planning, drones can capture comparable data in dramatically shorter timeframes

Drone Survey

A drone survey is simply a survey conducted from overhead using a camera drone. We produce 2D / 3D Orthomosaic maps, 3D Models, Point Cloud Data and Topographic Drawings from the Drone Images

Drone Surveying Solution can produce surveys with different degrees of accuracy, depending on the requirements of the project.

In our project experience, the DJI Phantom 4 RTK/PPK achieved 5 to 10 cm relative vertical accuracy and 2 to 5 cm relative horizontal accuracy.

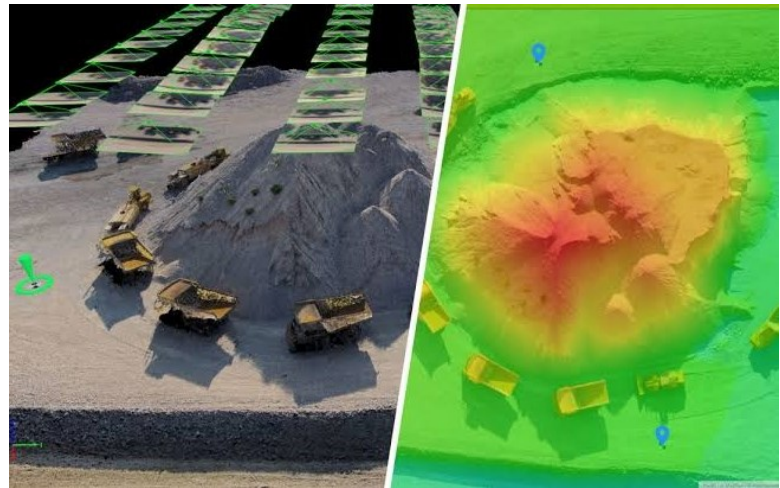


**Goodland
Geospatial**

16 Years of Experience in Surveying & Mapping of Roads, Railway, Smart City, SEZ & Industrial Land, Airports, Ports, Irrigation Projects, Pipeline and Cable Routes with latest technology. We are specialized in UAV(Drone) based Survey from 2016

Applications & Deliverable

“Bringing The Land Profile To Your Desktop Using Latest Technologies And Provide A Quality Service, Which Fulfills Your Requirements”



Area of Application

- Proposed & Existing Railway Line:- Design, Maintenance, Asset Management & Monitoring
- Green Field Roads & Highways – Pre-Bid & Post Bid Survey, Design, Maintenance, Asset Management & Construction
- Smart Cities - Design, Planning & Construction
- Oil and Gas Pipeline Network, Utility Services i.e., OFC, Cables & Etc
- Large Land Parcels like Forest, Industrial, Agriculture, Real estate, etc

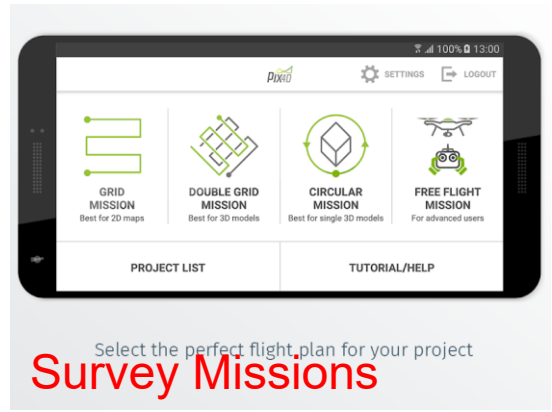
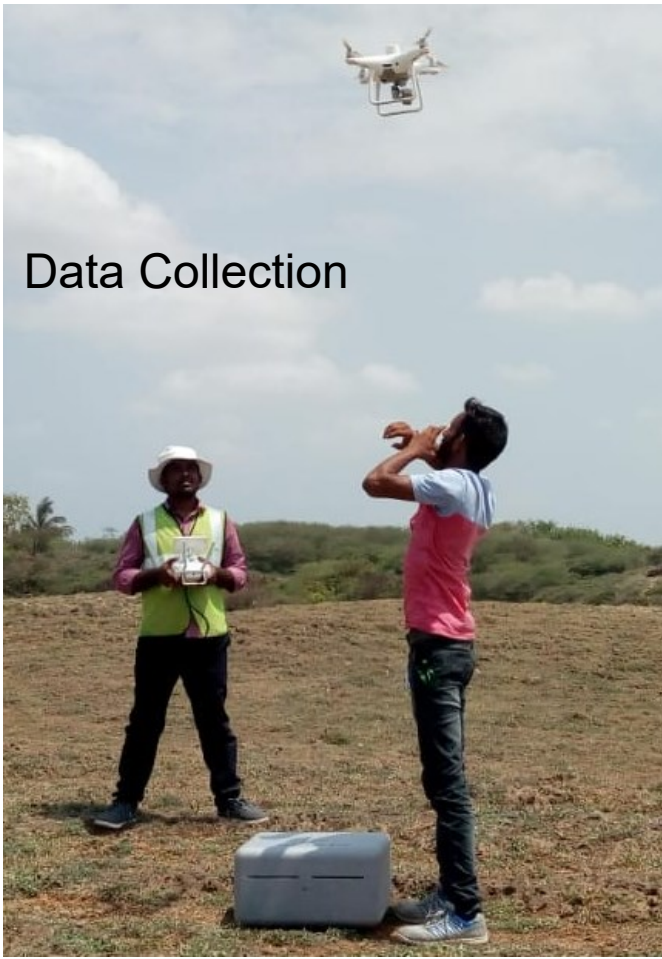
Deliverable

- Orthomosaic Images (a planimetrically correct image, so measurable in real scale)
- Point Cloud Data (las. laz format) large data sets composed of 3D point data
- Ground Classified Point Cloud Data (as it is needed to create a DTM)
- AutoCAD compatible Survey Drawing includes location of DGPS, other & Control Points
- Video files for the entire project area



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Data Collection



Ortho Image

By using Drones, we have completed more than 1800 kilometers of Highways, Smart cities and Railway Line Surveying. We undertake projects all over India and abroad

Few Important Clients:



L&T



KIIFB



Helica, Italy

Clients & Projects

We do DGPS Survey, Control Points Survey (Traverse & Fly Level), Drone survey, Total Station Survey, Drone Data Processing and preparing CAD compatible Drawings, etc.



Louis Berger



AECOM



EGIS India

Few Recent Projects Completed:

- Addu City Survey, Maldives
- 1200 Kms of NHAI-TOT Drone Videography (in the state of J&K, Punjab, Rajasthan, Haryana, MP, Maharashtra, AP & TamilNadu)
- 300 Kms of Kerala State Highway Projects
- Karur to Coimbatore Proposed Green Field Highway
- 300 Kms of Proposed Green Field Highway projects in Karnataka & Andhra Pradesh
- 10000 Acres of Industrial Land near Tumkur, Karnataka
- 300 Acres of Open Mine at Egypt
- Diu City Survey, near Gujarat



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Contact Us

The Phantom 4 RTK stores satellite observation data to be used for Post Processed Kinematics (PPK), which can be post-processed for accurate position with a know base station



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Pilot can adjust flight settings such as altitude, ground sampling distance (GSD), flight direction and images overlap.

Satellite: GPS+GLONASS+Galileo

*Camera: 1" CMOS; Effective pixels: 20 M
Gimbal:*

Stabilization: 3-axis (tilt, roll, yaw)

Pitch: -90° to +30°

Max Controllable Angular Speed: 90°/s

Refer the attached datasheet for complete information



We are seeking opportunities to help our customers and partners around the world for surveying, mapping, data processing and related services. Please feel free to call us or write to us

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