Plan. Process. Analyze and Execute

Mission Planning

Data Acquisition

Area Mapping

Data Analysis

Construction: Collect, measure and analyze data with accuracy across projects
Infrastructure: Easily perform detailed inspections on complex assets and structures
Energy: Safely inspect vertical assets and structures, with special optimizations for power lines
Public Safety: Achieve rapid turnaround time for gathering on-site critical information
Agriculture: Get an in-depth understanding of your field to help you generate greater yields
Filming: Optimize previsualization to improve planning workflows across your team

Waypoint Mission Planning: Create efficient flight paths using predefined waypoint actions and adjustable parameters like altitude, speed, gimbal pitch angle, aircraft heading and more. For more complex and tight missions that require high attention to detail, use 3D Flight Visualization to design and simulate tasks on existing 3D models.

Area Mission Planning:
With just a few taps on the screen, you can automate complex missions, allowing you to seamlessly capture imagery which can be processed to produce a variety of maps and models for further analysis, and to aid decision-making.

Oblique Mission Planning: When accuracy is essential and details are vital to your critical operations, Oblique lets you capture a rich 3D model data set by adjusting the angle of the camera at a tilted angle, giving you an extra crisp view of the asset.

Corridor Mission Planning: Create automated flight missions around roads and railways by simply drawing a line on the map. Adjust mission settings to change the total area mapped, giving you the flexibility to choose between creating high-definition 2D maps and 3D models or quick overviews.

Detailed Inspection Mission Planning: Automatically generate waypoints and flight routes based on one or more points selected in a local 3D model or point cloud (or a third-party point cloud). A simulated camera view including the selected point is displayed onscreen to enable better waypoint selection and more efficient flight route planning, automating inspection workflows.

Seamless Workflow, Accurate Results:

1. Unparalleled efficiency and user experience:

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Import images with ease while navigating the intuitively designed interface effortlessly.
Bulk process up to 400 images/1 GB of RAM, minimizing the wait time between field work and digital visualization.
Run reconstruction missions by employing multiple graphics cards simultaneously to improve efficiency.

2. Meet and exceed your project standards

3D models with enhanced absolute accuracy by setting Ground Control Points (GCPs) and checkpoints, so you can measure and inspect with ease.
View a quality report of your mission to ensure the results meet your accuracy standards.

3. Compatibility and flexibility

Convert the coordinates of your maps and models into 8500+ major coordinate systems by simply selecting the output that fits your needs.
Incorporate POS data, GCPs, or both sets of data to create georeferenced maps and models with enhanced accuracy directly in the target coordinate system required by the project.

2D Maps:

Real-time Mapping

Quickly generate a 2D orthomosaic of the selected area in real-time. Not only is this ideal for creating detailed flight paths in remote areas but its also useful for time-sensitive missions that require quick decision-making on site:

2D Reconstruction:

Generate high resolution orthomosaics, enabling you to get detailed and accurate measurement results for all your critical projects.
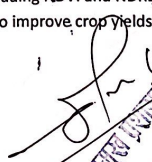
2D Multispectral Reconstruction:

Using multispectral data from P4 Multispectral, generate radiometrically calibrated reflectance maps for remote sensing research and more, or produce vegetation index maps including NDVI and NDRE. Create prescription maps for variable rate application using DJI' s Agras drones to improve crop yields while driving down costs.

3D Models:

Real-time 3D Mapping:

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When efficiency is key, quickly render and visualize a 3D model of the mapped area. Make decisions based on the preliminary model and check for completeness immediately or plan 3D flights on-site.

3D Reconstruction

Get sharp and realistic representations of your surroundings throughout various industrial applications, be it accident reconstruction, recreating thin power lines and complex vertical structures, managing major construction projects and more. The CUDA-based reconstruction algorithms are capable of quickly processing large amounts of data to deliver quality results.

With Region of Interest, image reconstruction can be performed to specific target region. In turn, this saves processing time and improves efficiency, while generating a clearer model or point cloud.

LiDAR Data Processing

Point Cloud Data Processing

Process point cloud data. In just one click, calculate POS data, fuse point cloud and visible light data, export point clouds in standardized formats, and generate fieldwork reports.

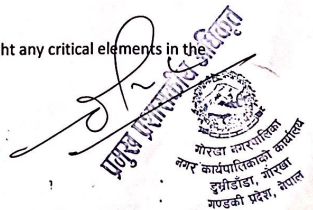Data Analysis:

2D and 3D measurements

Co-Ordinate, Distance, Area, Volume

Annotation

Edit labels of measurements on existing models, which can be used for reporting and improving communication throughout ongoing projects.

Photo Inspection

Closely inspect every photo of the model so you can pinpoint and highlight any critical elements in the real world.

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नगर कार्यपालिकाको कार्यालय
दुर्गींडाँडा, गोरखा
गण्डकी प्रदेश, नेपाल