GeoSLAM Hub

The complete end to end software solution for your geospatial data

GeoSLAM Hub

GeoSLAM Hub & Draw is a comprehensive software suite that transforms 3D point cloud data into actionable information and valuable deliverables.

A part of GeoSLAM's complete mobile mapping solution, GeoSLAM Hub & Draw bring together industry-leading SLAM with powerful post processing functionality to deliver complete end to end solutions.
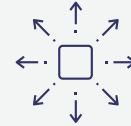
Why GeoSLAM Hub?

- SLAM processing to generate accurate 3D point clouds from mobile data
- Adjust to control allows users to incorporate known positions into SLAM, building on our robust processing calculations.
- Import, view and interrogate data captured from all GeoSLAM mobile mapping solutions
- Quick & easy workflows with 'drag and drop' functionality - produces deliverables in minutes
- Provides survey-grade data accuracy, without the surveyor

**Collect**   **GeoSLAM Hub**   **Deliverable**

SLAM

Globally recognised as the most robust SLAM engine in the world, GeoSLAM's continuous - time SLAM has been tested and proven for over 6 years by thousands of customers.

Furthermore, GeoSLAM Hub offers unique user definable advanced SLAM processing parameters enabling accurate results to be achieved even in the most challenging of environments.
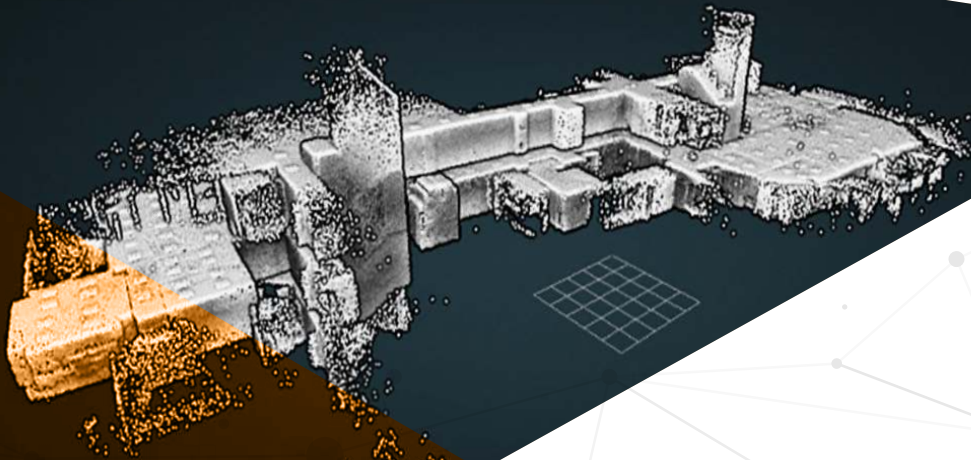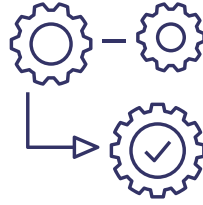
Features of GeoSLAM Hub
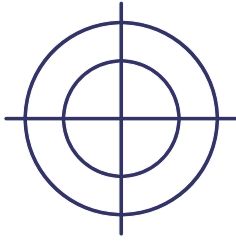
Adjust to Control

Utilising GeoSLAM's referencing accessories and easy to use workflow, a user can incorporate external control into the SLAM algorithm. This can improve scan accuracy while placing the data in real world co-ordinates.

Advanced Processing

Data collected in challenging or restricted environments can be reprocessed using a suite of advanced processing parameters.

With a simple 'slider' functionality, users can reduce scan drift (in open environments), remove outlying data points, prioritise planar surfaces (in noisy environments) and much more.
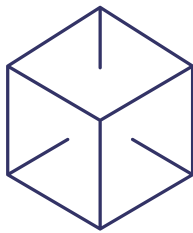
View & Annotate

Synchronised point cloud data and imagery data can be easily viewed and examined in both 2D and 3D.

Co-ordinates, dimensions and areas can be quickly extracted and important elements highlighted using 'Notes' feature.
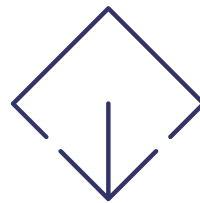
Export

Customisable export options facilitate smooth interoperability with down- stream processing software and workflows.

Data can be smoothed, decimated and exported in most industry standard formats including LAS and E57.

Data can also be saved with colour RGB, shade values and normals.

Why GeoSLAM Draw?

- Create 2D plans, sections & elevations from 3D point cloud data in minutes with modules specific to your application

- Rapid 2D area measurement, and 3D volume calculations from 3D data

- Automatic vectorization of 2D lines allows for rapid floorplan and ceiling layouts

- Easily export data for use in third party CAD and GIS software packages

- Publish, share, and collaborate with multiple stakeholders

- End to end scan to plan workflow

2D Deliverables

A range of simple-to-use tools for quickly extracting layouts and sections from point cloud data.

Draw section & plan lines through 3D point cloud data to immediately produce 2D outputs.

Choose manual or automatic vectorization processes to rapidly generate floorplans, ceiling plans or basic building layouts in minutes.

Share Globally

Collaborate and share with your colleagues and customers using GeoSLAM Viewer in which people can view the synchronised imagery and 3D point cloud data captured.

Using GeoSLAM Draw Pro you can also publish web exports including 3D point clouds, 2D layouts, and video.

3D Deliverables

Advanced options are available for delivering 3D information - ideal for those working in the mining and engineering sectors.

Outputs include the creation of mesh DTMs, volumes, profiles, and surface change measurement.

GeoSLAM Hub

Features Summary

Choose the right package for you.

The Start package comes as standard with all GeoSLAM Solutions, while Plan, BIM, Mining and Pro are optional upgrades.

	Start	Plan	BIM	Mining	Pro
Import non-proprietary	✓	✓	✓	✓	✓
3D View	✓	✓	✓	✓	✓
Layout/Section	✓	✓	✓	✓	✓
WebExport		✓	✓	✓	✓
Registration			✓	✓	✓
Virtual Pano	✓	✓	✓	✓	✓
Sketch	✓	✓	✓	✓	✓
Merger		✓	✓	✓	✓
Volume				✓	✓
Proprietary Formats			✓	✓	✓
Mesh				✓	✓
Align/Transform	✓	✓	✓	✓	✓
Vectorizer	✓	✓	✓	✓	✓
Profiler				✓	✓
PhotoMatch			✓		✓
RCP Import & Export		✓	✓	✓	✓
Elliptical Section		✓	✓	✓	✓
Polygonal Section		✓	✓	✓	✓
Curved Section		✓	✓	✓	✓
Cloudexport	✓	✓	✓	✓	✓
4CAD			✓		✓
4Revit Plugin			✓		✓

System Requirements

Minimum

- Windows 10
- i7 6th Generation
- AMD Ryzen 7 (1700X)
- Integrated Graphics
- 16GB RAM
- 30GB free space
- SSD

Recommended

- Windows 10
- i7 , i9 8th generation or greater (higher clock speed)
- AMD Ryzen 7 (2700X)
- NVIDIA GTX 1060
- 32GB RAM
- 30GB free space
- SSD

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