

Geosun Navigation Technology Co., Ltd.

Focus on Geo-Spatial Intelligence

Make the LiDAR/SLAM solution more affordable and applicable

www.geosunlidar.com
https://en.geosuntech.com

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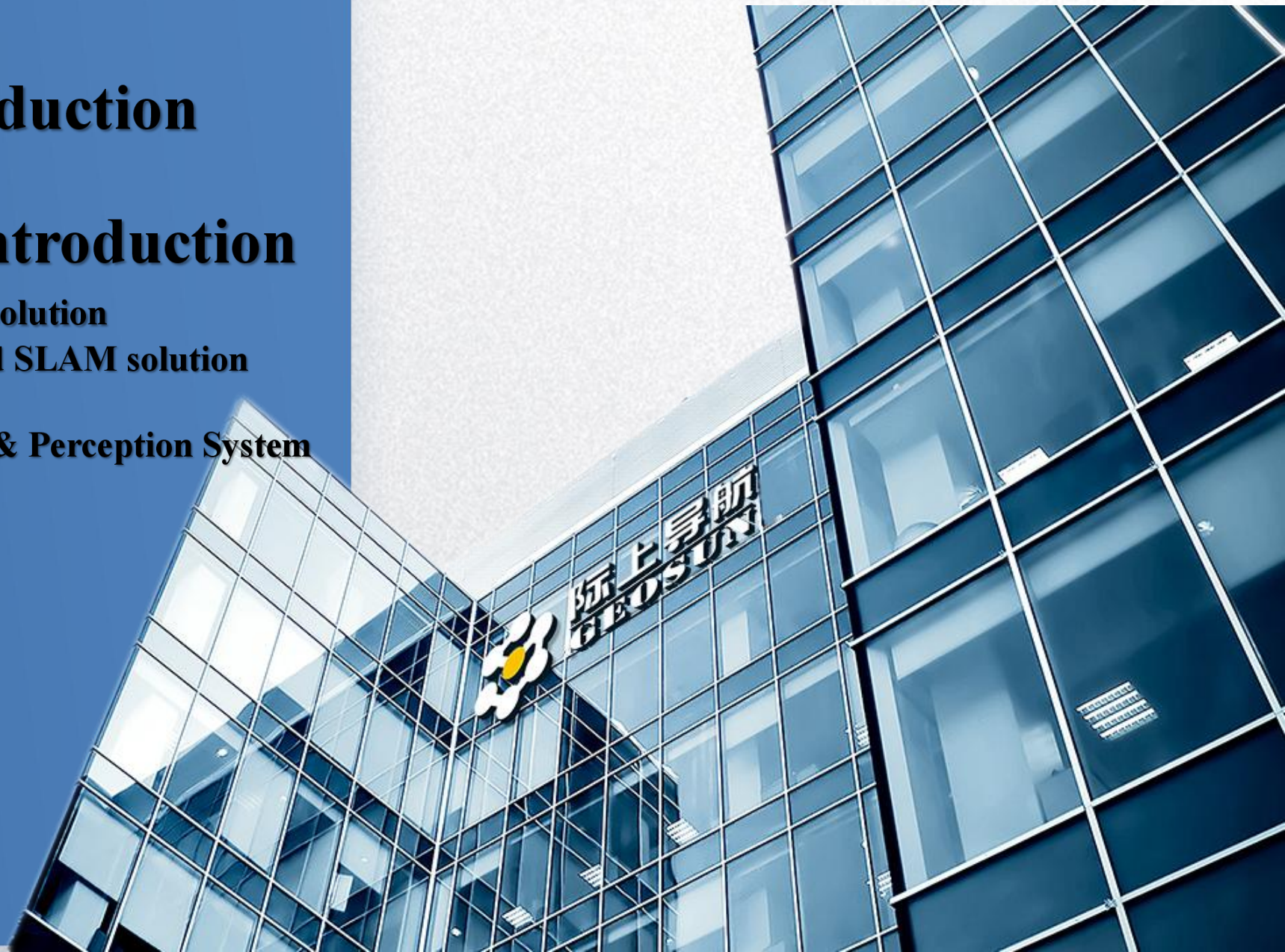
2. The Products Introduction

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About Geosun

The first team in China to develop Real-Time Kinematic positioning algorithms for centimeter-level GNSS.

Founder Dr. Sun received the Outstanding Paper Award from the American Society of Navigation.

One of the earliest teams engaged in GNSS/INS/LiDAR integration(SLAM) in the world.

Obtained more than 20 intellectual property rights.

More than 600 partners worldwide, Covering more than 90 countries and regions.

Better Service and More Affordable Prices.

600+
Worldwide Partners

90+
Countries/Regions Coverage

About Geosun

GEOSUN is a technical enterprise based on fully independent intellectual property rights.

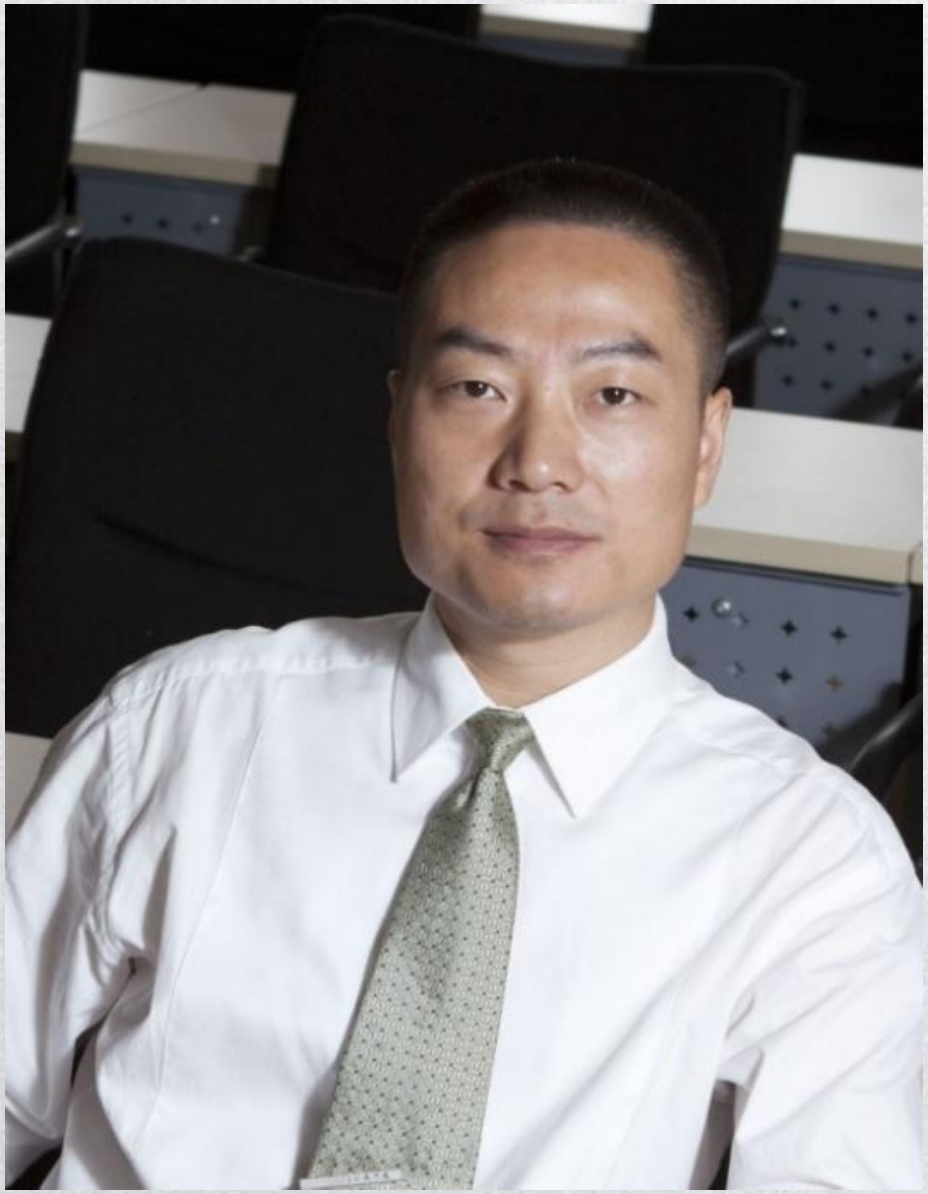
Hardware/software development and system design in one.

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Specializing in the application of **GNSS, INS, Visual Localization (VL), LiDAR**, Simultaneous Localization And Mapping**(SLAM), Autonomous Positioning & Perception System** etc.
We provide the information of spatial state and surrounding scene for various types of targets.

Our solutions are widely used in land resources, agriculture, forestry, water conservancy, electric power, smart city, robotics, energy resources, surveying and mapping, transportation, communications, etc.

The Founder of Geosun



The founder of the Geosun

In 1995, received the B.S. degree in geodesy(WTUSM)
In 2000, got the M.S degree in geographic information system(WTUSM)
In 2004, got the Ph.D degree in photogrammetry and Remote sensing (WHU)
From 2007 to 2009 Did the postdoctoral research in Ohio State University, supervised by Professor Grejner, the former chairman of the Institution Of Navigation.

Dr. Sun has more than 30 years of experience in geospatial industry. He is the executive director of the Chinese Global Satellite Navigation Association, the director of the navigation branch of the Chinese Institute of Electronics, and the Member of ION.





Senior Technical Advisor



Academician Li Deren, photogrammetry and remote sensing expert, **academician of the Chinese Academy of Sciences**, **academician of the Chinese Academy of Engineering**, academician of the International Eurasian Academy of Sciences, director of the Academic Committee of Wuhan University.

Successively served as President of Wuhan Technical University of surveying and Mapping(WTUSM), Director of the Academic Committee of Wuhan University, Director of the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Director of the Academic Committee, member of the National Committee of the Chinese People's Political Consultative Conference, and member of the Disciplinary Review Group of the State Council.
Owner of **Samuel Gamble**
Owner of **Brock Gold Medal Award**

The Senior Consultant



Academician. Li



Academician. Jiang



Prof. Meng
from Nottinham University



Prof. Zhuang
from University of Calgary



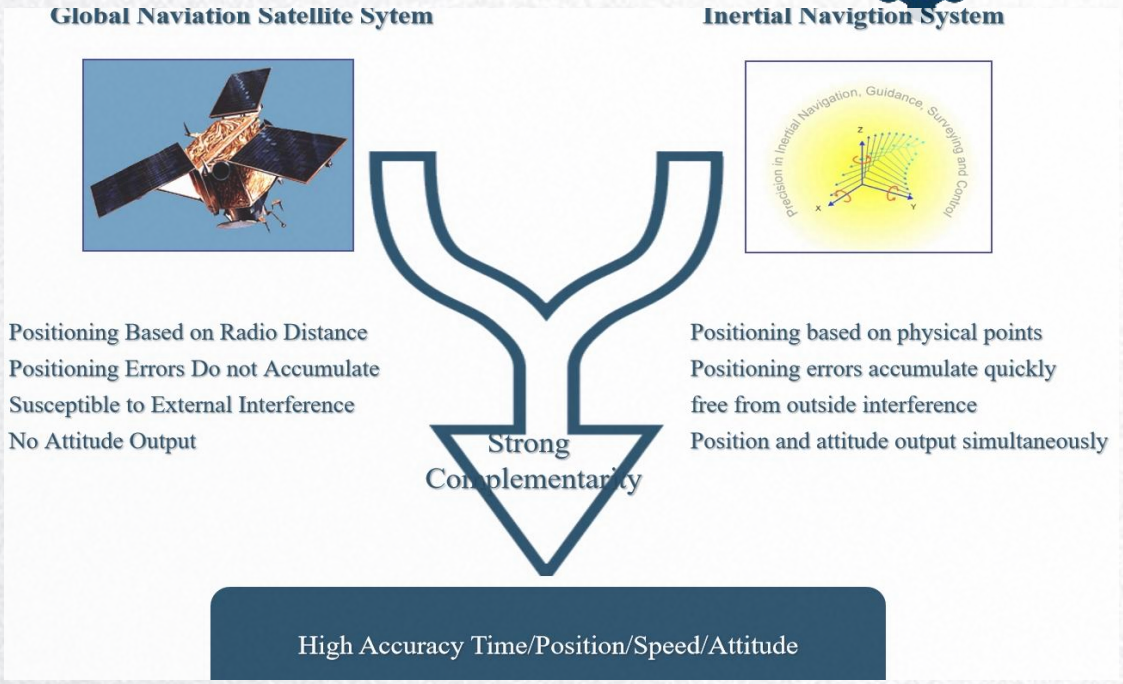
Prof. Jode Mordon
from University of Colorado Boulder

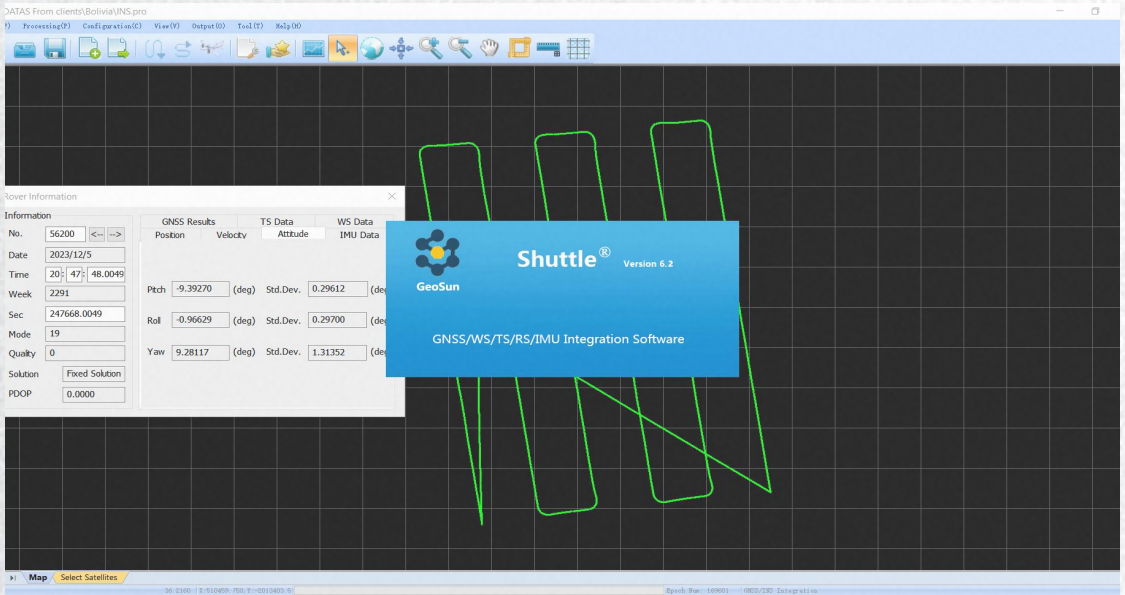
The Core Technology

More than 30 years of experience in GNSS/INS integrated Positioning and Attitude Determination system, providing professional hardware and software solution for Aerial and Mobile application with **Independent Intellectual Property Rights.**

Shuttle Software - Trajectory Processing Software
Shuttle software is **one of three** Trajectory processing software in the world, the other two are **IE (from NovAtel)** and **Pospac (from Trimble)**.

System Features
ECEF Coordinate Navigation Calculation
INS High-Order Error Model
Multiple Format Data Direct Input
Multi-Directional Filtering
User-Friendly Graphical Interface
User-Defined Output
Coordinate System Management





Hardware of POS (GNSS/INS) System

It is composed of GNSS and Inertial Navigation System (INS). It provides instant position information of the rover through GNSS differential positioning, and provides the attitude data (pitch, roll, heading) through INS.

GNSS supports **GPS/GLONASS/Galileo/BDS** four system signals. IMU Support ranges from **low-precision MEMS IMUs** to **high-precision Fiber Optic** and Ring L**aser IMU** grades.

gSpin 210-410 (MEMS Type)
Positionning accuracy: 0.02~0.05m
Heading: 0.040°- 0.01°
Pitch/Roll: 0.015°- 0.003°

gSpin 510-610 (Fiber Optic Type)
Positionning accuracy: 0.02~0.05m
Heading: 0.008°- 0.005°
Pitch/Roll: 0.003°



MEMS Type



Fiber Optic Type

Camera Extrinsic Calibration Lab



The Camera Extrinsic Calibration Lab covering 500㎡ ensures precise alignment between cameras and other sensors.
It provides a controlled environment for accurate and reliable calibration, enabling high-quality data fusion and measurement accuracy.
Especial suitable for Road Information Collection LiDAR Scanning System & High-Precision Positioning Systems for Autonomous Driving.

Much more expericence in building this Lab for **Geely Auto**







Reward and Honors





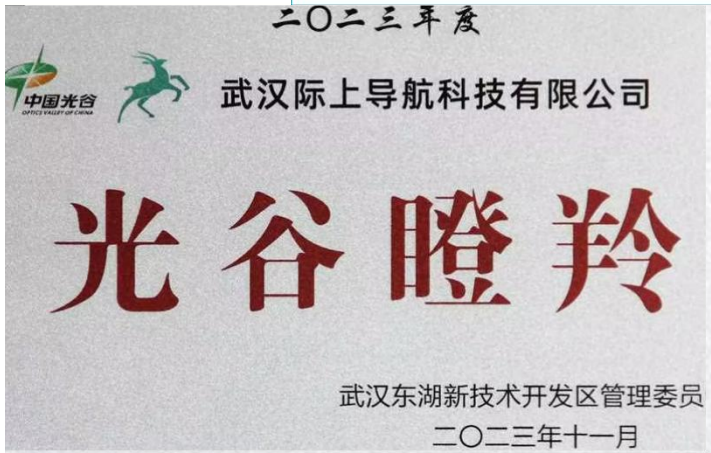






Certification/Honor of High Technology Enterprise



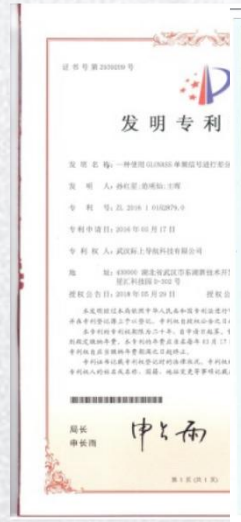


Invention Patents & Software Certificate

More than 20 Invention Patens and 10 copyrights





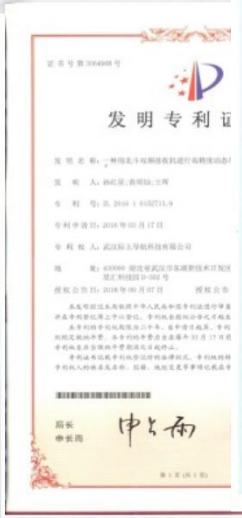






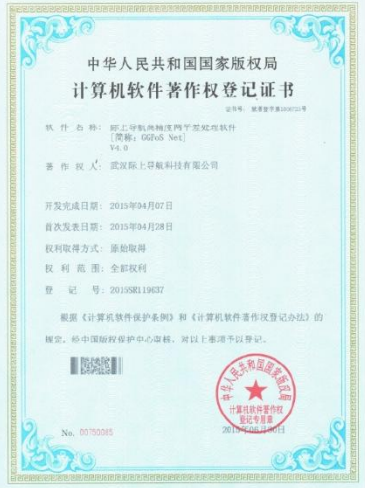












The Milestone

Geosun



2025

Autonomous Positioning & Perception System



2022

gCollecter and PBOX system are applied in Unmanned vehicle fields.



2018

The first unit of LiDAR scanning system (GS-MID40) was launched, stricking the world with its unprecedented price and performance.



2015-2017

Launch RTK/PPK instruments with high-precision GNSS/INS multi-sensor combined positioning and attitude measurement



A Robust Solution to High-Accuracy Geolocation: Quadruple Integration of GPS, IMU, Pseudolite, and Terrestrial Laser Scanning

Dorota A. Grejner-Brzezinska, Charles K. Toth, Hongxing Sun, Xiankun Wang, and Chris Rizos

2014

The first team in the world to implement GNSS/INS/WS (odometer) combination to detect rail smoothness



2007

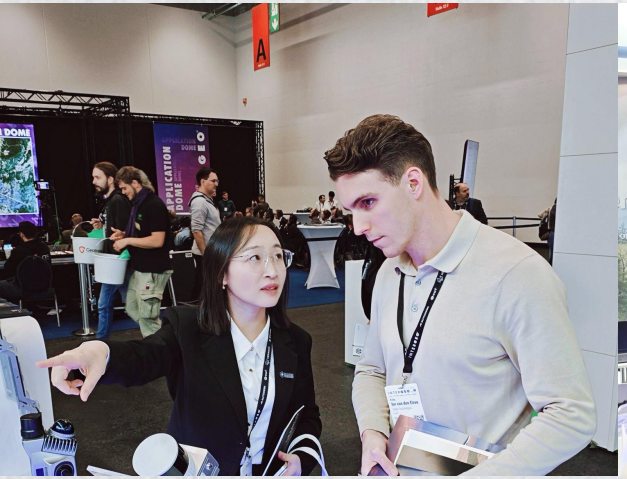
One of the earliest teams in the world to engage in GNSS/INS/PS/TLS combined positioning (SLAM)

2003

The first team to develop a GNSS real-time dynamic positioning algorithm (centimeter-level accuracy) in China

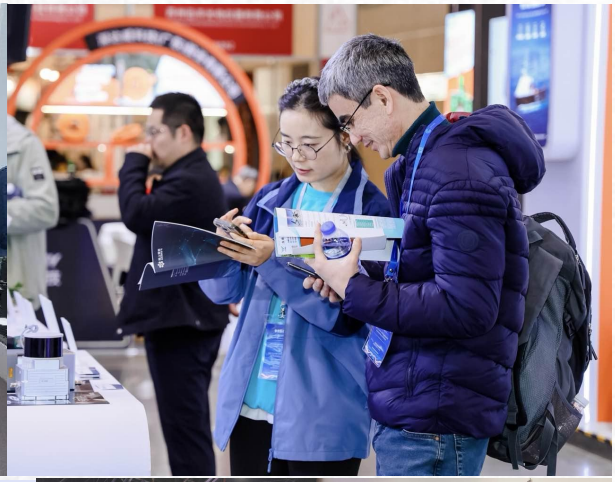
The Expo in Mapping & Survey

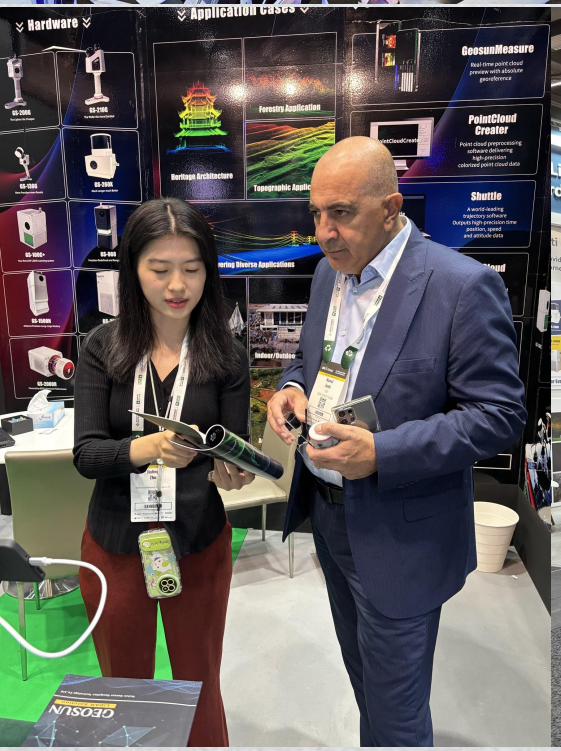
Geosun

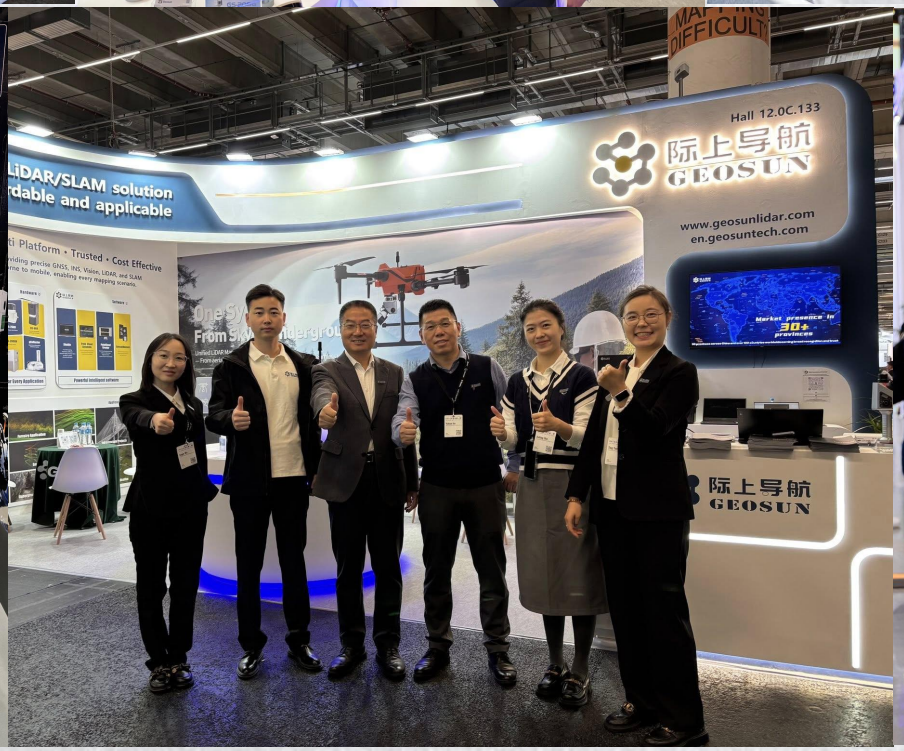




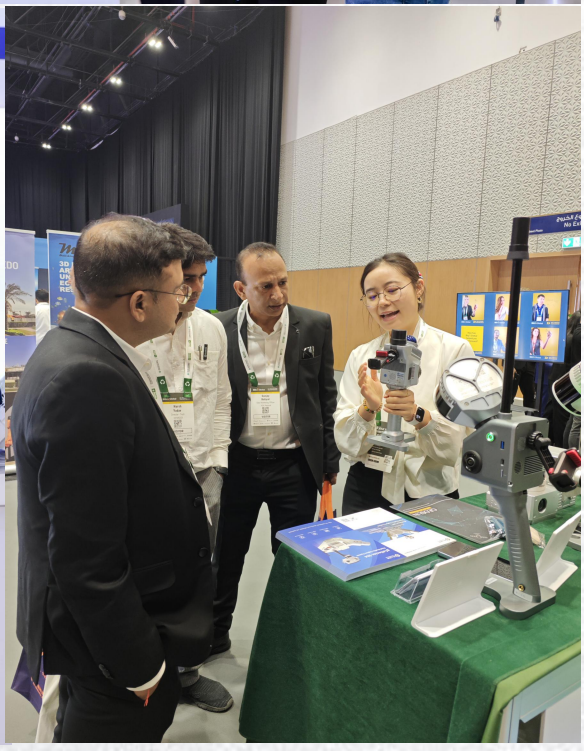












Why Choose Us

Geosun

Affordable

With self-developed POS (GNSS/INS) solutions and trajectory processing software, we are able to provide reliable LiDAR solutions with the most competitive price.





Reliable

30 years of experience in GNSS/INS/SLAM technologies and full package of software developed all by ourselves which guarantee a high level of accuracy and reliability

Compatible

Designed for all brand multi-rotor Drones, Fixed wing UAVs, Manned Aircrafts and Vehicles.





Easy to use

Quick-installation mounting system and one-key process solution make both field work and data processing work much easier.

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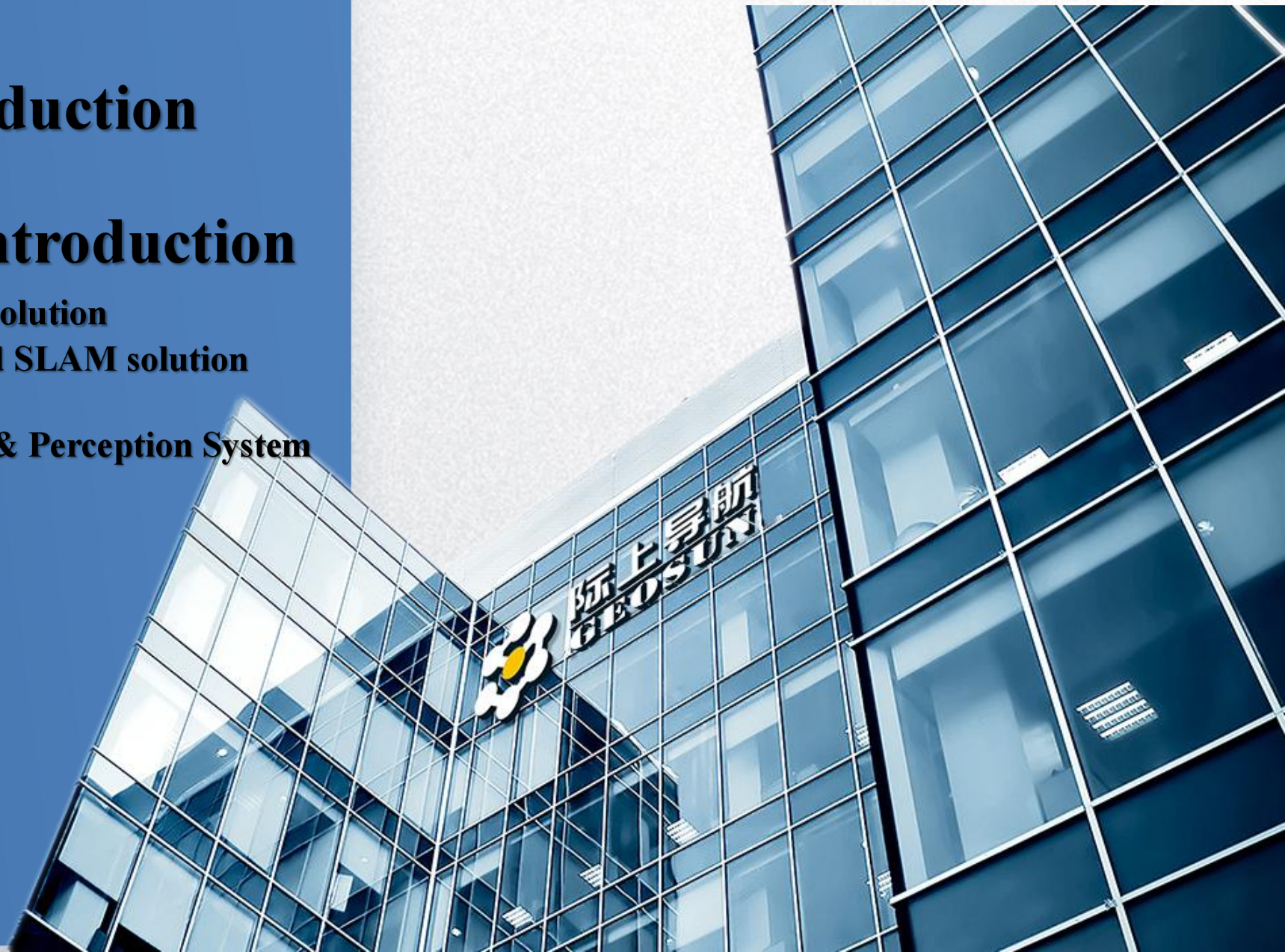
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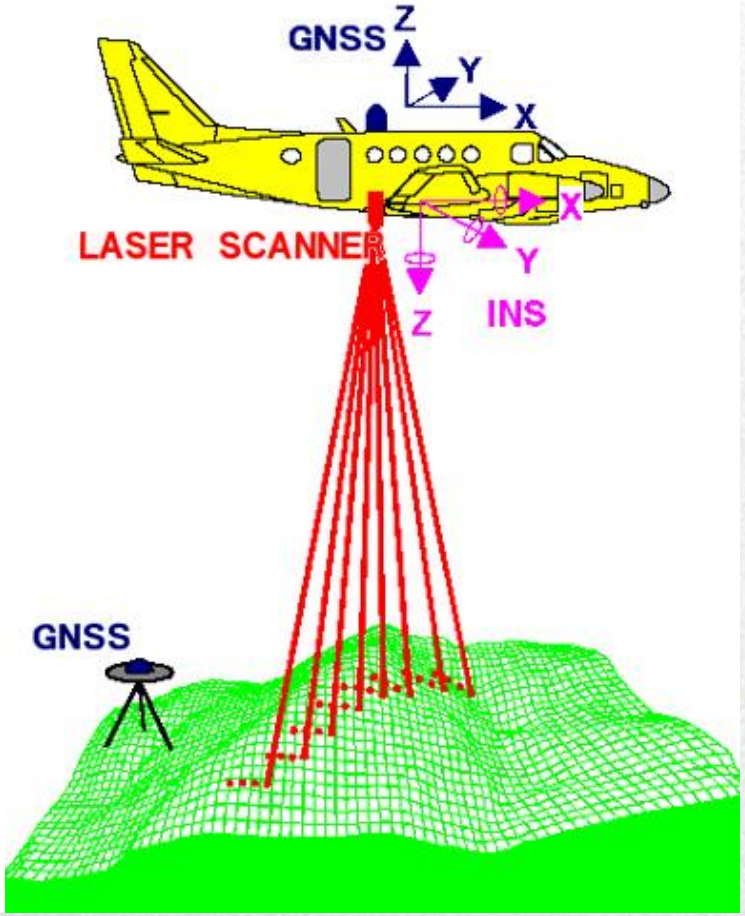
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LiDAR Scanning System

LiDAR (Light Detection and Range) Concept



The 3D laser scanning system is another measurement technology innovation after GNSS positioning. It is a laser detection and ranging system installed on UAVs or other vehicles. This technology determines the sensor position and attitude through ground and aerial GNSS/INS system, and the system is equipped with a laser ranging system and camera to quickly and accurately obtain three-dimensional coordinates and digital images of the ground data.

LiDAR Scanning System are composed of Laser scanner unit, POS (GNSS & INS) system and Camera unit (Option).

gAirhawk Series
LiDAR Scanning System

Geosun















- Riegl
- LJYY(FT Serial)
- HESAI
- Livox

The Structure of Aerial LiDAR solution

Geosun

UAVs

LiDAR Scanning System

POS (GNSS/INS)





PSDK Connection /Mounting kit

RGB Camera

The Compatibility

Geosun

Designed for all brand Multi-Rotor Drones, Fixed Wing UAVs, Manned Aircrafts.

















The Compatibility

Geosun

Designed for all brands Vehicle













The LiDAR Unit Hardware

Livox Avia sensor (Entry Level) **Your First** LiDAR Solution



GS-100C+, GS-100M+

Solid-State Laser Sensor with Low Cost

Key Features

Lightweight and compact design
Entry-level UAV LiDAR system
Best data quality in its kind
One-key solution for data processing
Beam Divergence 0.28°× 0.03°

Included

Livox Avia
Geosun gSpin 210 (GNSS + IMU) POS system
26M Pixel RGB Camera
Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

WPM Mission Planning software
PCA post processing software

The LiDAR Unit Hardware

HESAI Laser Sensor (**Surveying Grade**) **Hot Sales**



GS-130X/260H/260X/260F

Mechanical Laser Sensor **Better Precision and Penetration**

Key Features

Lightweight and compact design

Both Mobile and Aerial Solution are available

Up to 1,920,000 Points per second (2/3 returns)

Beam Divergence 0.03°× 0.03°

Included

HESAI XT32/M2X/Pandar 40P

Geosun gSpin 210/310 (GNSS + IMU) POS system

26M Pixel RGB Camera

Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

WPM Mission Planning software

PCA post processing software

The LiDAR Unit Hardware

Single Beam Laser Sensor with **High-end IMU**



GS-960/1500N/2000N
Mechanical Laser Sensor **Born for Aerial Surveying**

Key Features

2,000m Max Detection Range
Up to 2,000KHz PRR
For Fixed wing drones and Manned Aircrafts
Beam Divergence **0.5 mrad**

Included

FT-mini/800/1500
Geosun gSpin 310/410 (GNSS + IMU) POS system
45M Pixel RGB Camera
Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

WPM Mission Planning software
PCA post processing software

The LiDAR Unit Hardware

Riegl Laser Sensor with **High-end IMU**



GS-2000R
Mechanical Laser Sensor **The Best One with the Highest Cost**

Key Features

360° FOV
Up to 1,500KHz PRR
For Fixed wing drones and Manned Aircrafts
Beam Divergence **0.3 mrad**

Included

Riegl Laser Sensor
Geosun gSpin 410 (GNSS + IMU) POS system
45M Pixel RGB Camera
Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

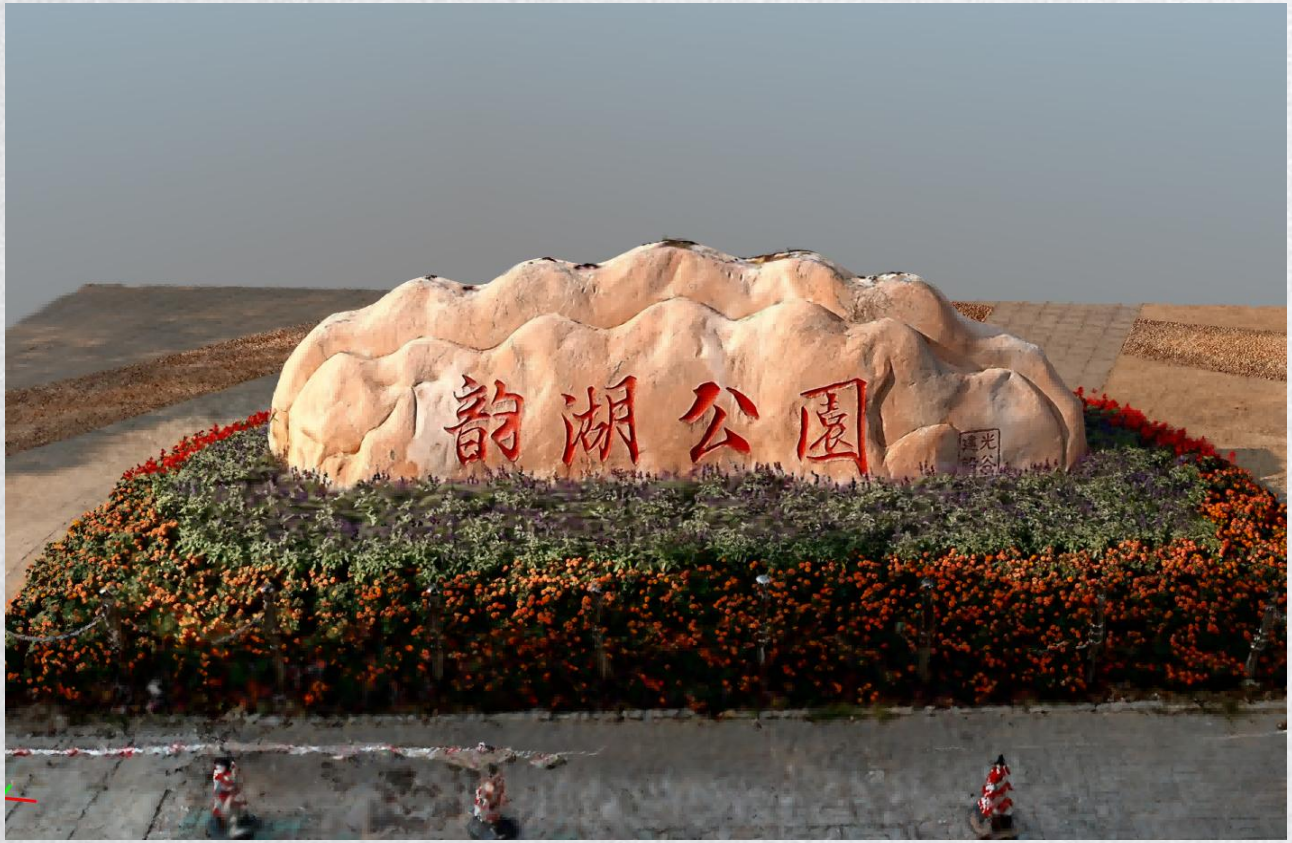
WPM Mission Planning software
PCA post processing software

gFireEye Series
Handheld SLAM Solution

Geosun



Handheld SLAM Solution



SLAM Concept

The full name of SLAM is Simultaneous Localization And Mapping, which is "simultaneous localization and map construction". It was first used for submarine positioning in military nuclear submarines. In recent years, due to the development of robots, drones, autonomous driving, AI, and VR and AR technologies, SLAM technology has gradually become well-known, because SLAM technology is the core point of navigation in these fields.

Handheld SLAM Solution



GS-130G



GS-100G/120G

GS-100G/120G/130G Handheld SLAM Solution
Mechanical Laser Sensor

Key Features

Lightweight and compact design
Support RTK+SLAM/PPK+SLAM/SLAM
Designed for outdoor and indoor usage

Included

Hesai XT-16/XT-32/M2X
Geosun gSpin 210 (GNSS + IMU) POS System
2* 20M Pixel RGB Camera
Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

PCA post-processing software

Handheld SLAM Solution



GS-200G

GS-200G Handheld SLAM Solution
State-solid Laser Sensor

Key Features

Lightweight and compact design
Support RTK+SLAM/PPK+SLAM/SLAM
Designed for outdoor and indoor usage

Included

MID360 Laser Sensor

Geosun 2* 20M Pixel RGB Camera
Trajectory and LiDAR data pre-processing software (Perpetual license)

Optional

PCA post-processing software



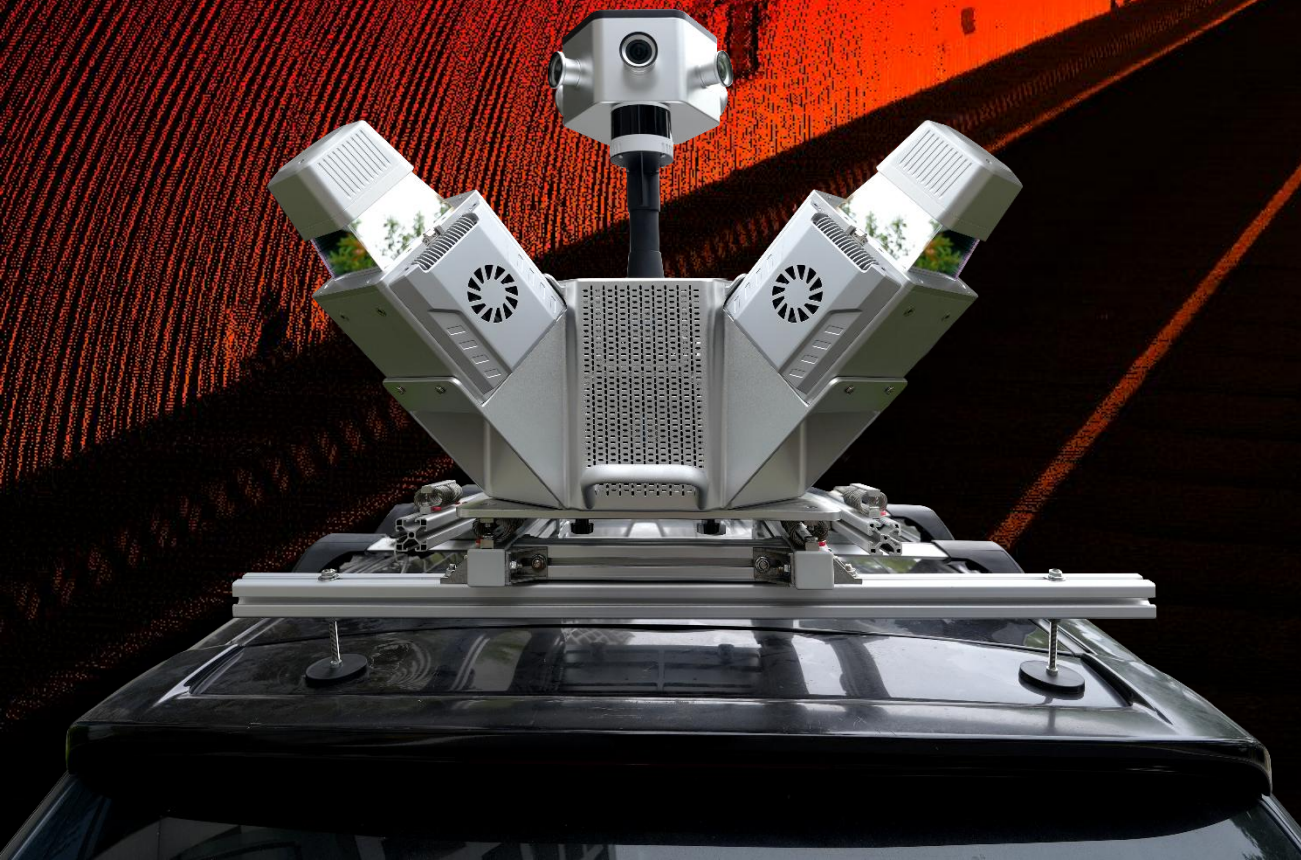
Geosun

Multiple Platform

One system for seamless mapping — from sky to ground, indoor to outdoor, across handheld, backpack, UAV, and vehicle platforms.

gCollector Series
Road Reality Capture System

Geosun



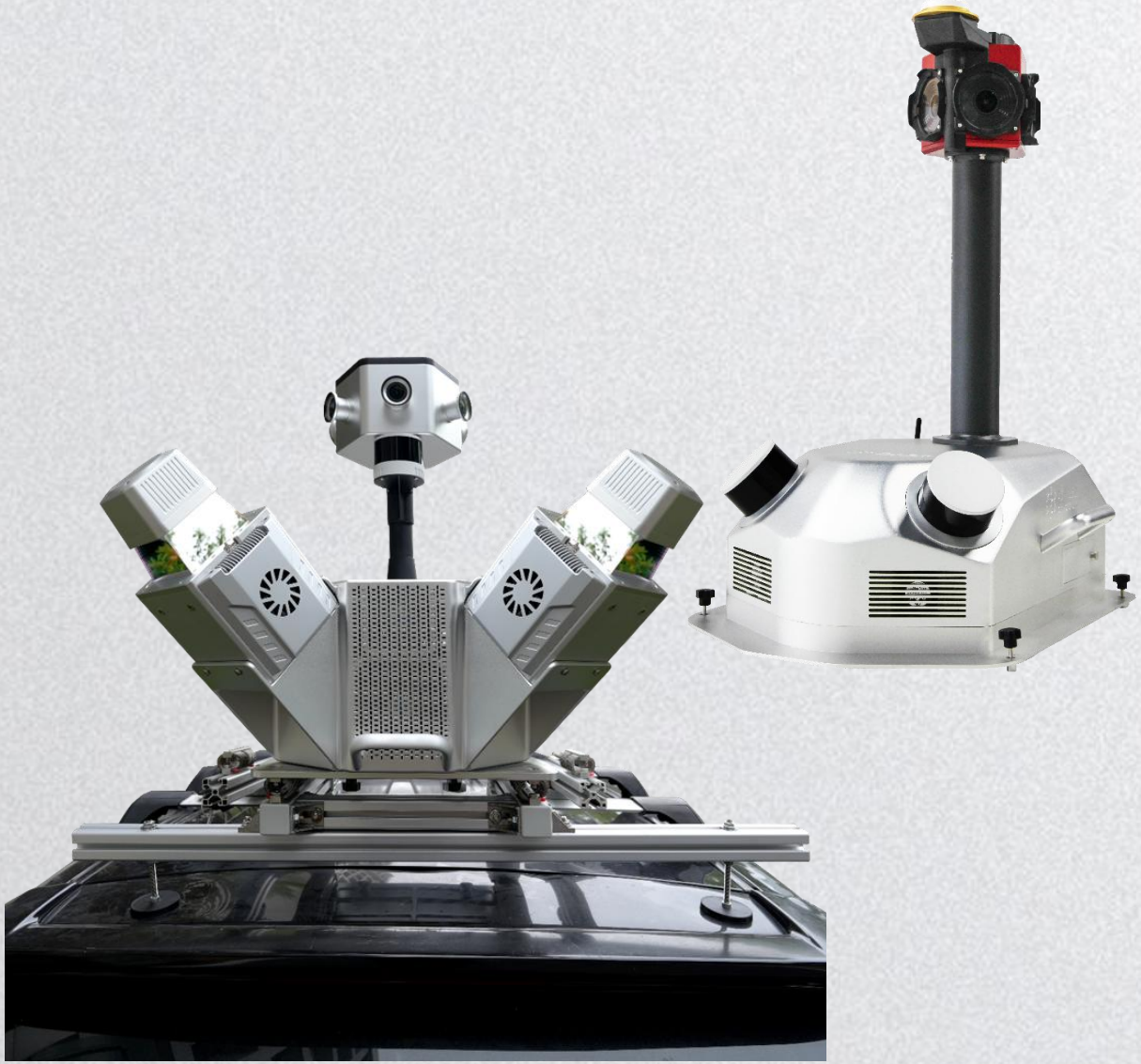


gCollector Series
Road Reality Capture System



The system is a mobile real-life collection system that integrates LiDAR, panoramic cameras, GNSS, IMU, WS and smart chips. It can be mounted on cars, trains or ships to collect centimeter-level high-precision point cloud and panoramic data. The intelligent software can independently implement functions such as route optimization, calibration, data processing, and result extraction. The gCollector road information collection system is independent, intelligent, easy to use, and has excellent performance. The unmanned BEV model can easily handle scenarios such as real-life 3D urban scenes, road component surveys, highways, and railway retests.

gCollector Series
Road Reality Capture System



gCollector 302/504 Best Choice - Road Information Collection LiDAR Solution

Key Features

Designed for Road Mapping & Survey

Included

Hesai XT M2X /FT-360 Pro
Geosun gSpin 310/410/510 (GNSS + IMU) POS system
7* 5M Pixel RGB Camera (Ladybug optional)

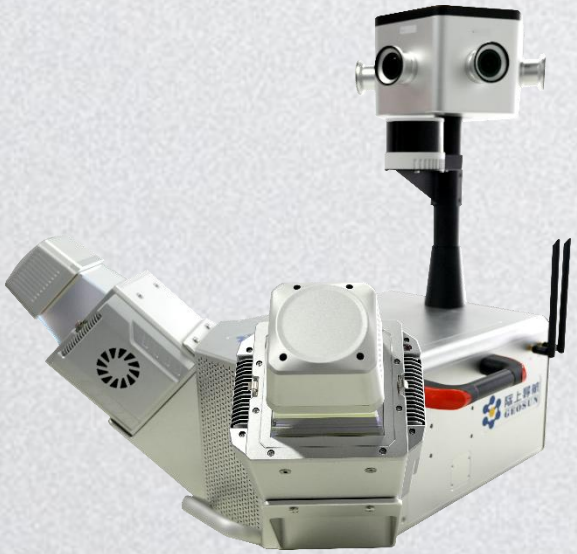
Wheel Sensor + Monitor System + Independent Power Source
Trajectory and LiDAR data pre-processing software (Pepertual license)

Optional

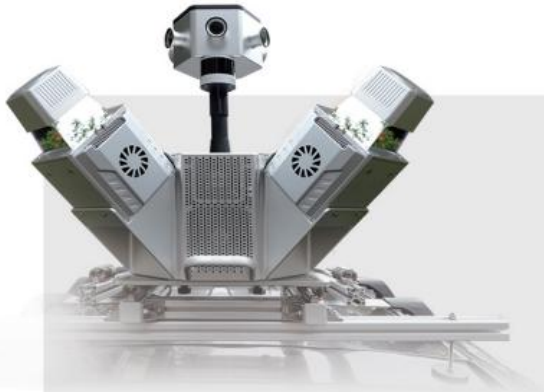
PCA post processing software

gCollector Series
Road Reality Capture System

Geosun







gCollector-504

Integrates LiDAR, panoramic camera, GNSS, IMU, WS, and a machine learning platform.
Mounted on various mobile platforms, it captures centimeter-level 3D point clouds and panoramic images.
Its intelligent software supports route planning, calibration, data processing, and result extraction.
Featuring autonomous operation, easy workflow, and excellent performance, it serves applications in autonomous driving, HD mapping, urban 3D modeling, road inspection, and highway or railway surveying.

Flagship Quality · Performance Upgraded



Dual-LiDAR Scanning Enhanced Point Density

- Millimeter-level single-line precision
- Unlimited echo returns
- Maximum point rate: 4,000 kHz

360° Panoramic Imaging All in View

- Seven-camera panoramic capture
- Compatible with Ladybug series
- Supports domestic G-series panoramic cameras

Surveying-grade SLAM Algorithm

- Handles long-term GNSS signal loss and jumps
- Enhances positioning accuracy and stability
- Enables seamless perception–mapping integration

High-capacity SSD — Storage with Ease

- 4TB solid-state drive
- Dual removable slots
- Expandable storage supported

Autonomous Positioning & Perception System

– Key Functional Highlights

Key Functional Highlights

- ★ Intelligent Loading Scheduling
- ★ Perception-Based Autonomous Obstacle Avoidance
- ★ Optimal Path Planning
- ★ Optimized Digging Point Selection
- ★ Autonomous Map Exploration
- ★ High-Precision Autonomous Material Discharge
- ★ Remote One-Click Start/Stop Control
- ★ Real-Time Operational Status Monitoring



Autonomous Environment Perception



Autonomous Path Planning



Fully Loaded Autonomous Transportation



Unmanned Autonomous Loading



High-Precision Autonomous Unloading



Laser Sensor
3D Environment Mapping

Audio-Visual Warning System
Safety alerts for unmanned operations

Blind-Spot Radar Sensors
Blind-spot coverage on both sides and rear of the vehicle

Domain Controller
Central computing platform

IMU
Measurement of working equipment motion and vehicle attitude



Wi-Fi Base Station
Wireless communication infrastructure



SANY Autonomous Loader



USTC Intelligent Robotics Team

Fully Autonomous Operation Workflow – Overview

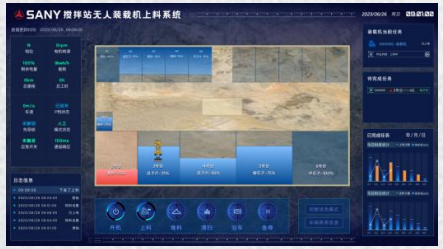
Once the customer configures an automated loading task, the system executes the following workflow:



Operator

Initial Configuration:
Stockyard layout & material parameters

Daily Task Scheduling:
Start /stop loadingoperations / parking commands



Cloud-Based Control System



Loading | Parking



Real-Time Material Level Monitoring

Operation Procedure

- Click **"Start Loading"**
- Loading is completed through steps ①–④
- Step ⑤ initiates the next loading cycle
- Click **"Park"**, and step ⑥ completes vehicle parking



Parking Position

①



Unloaded Travel

②



Material Scooping

③



Loaded Transport

④



Material Discharge

Continue loading operations or switch to parking mode

⑤

⑥

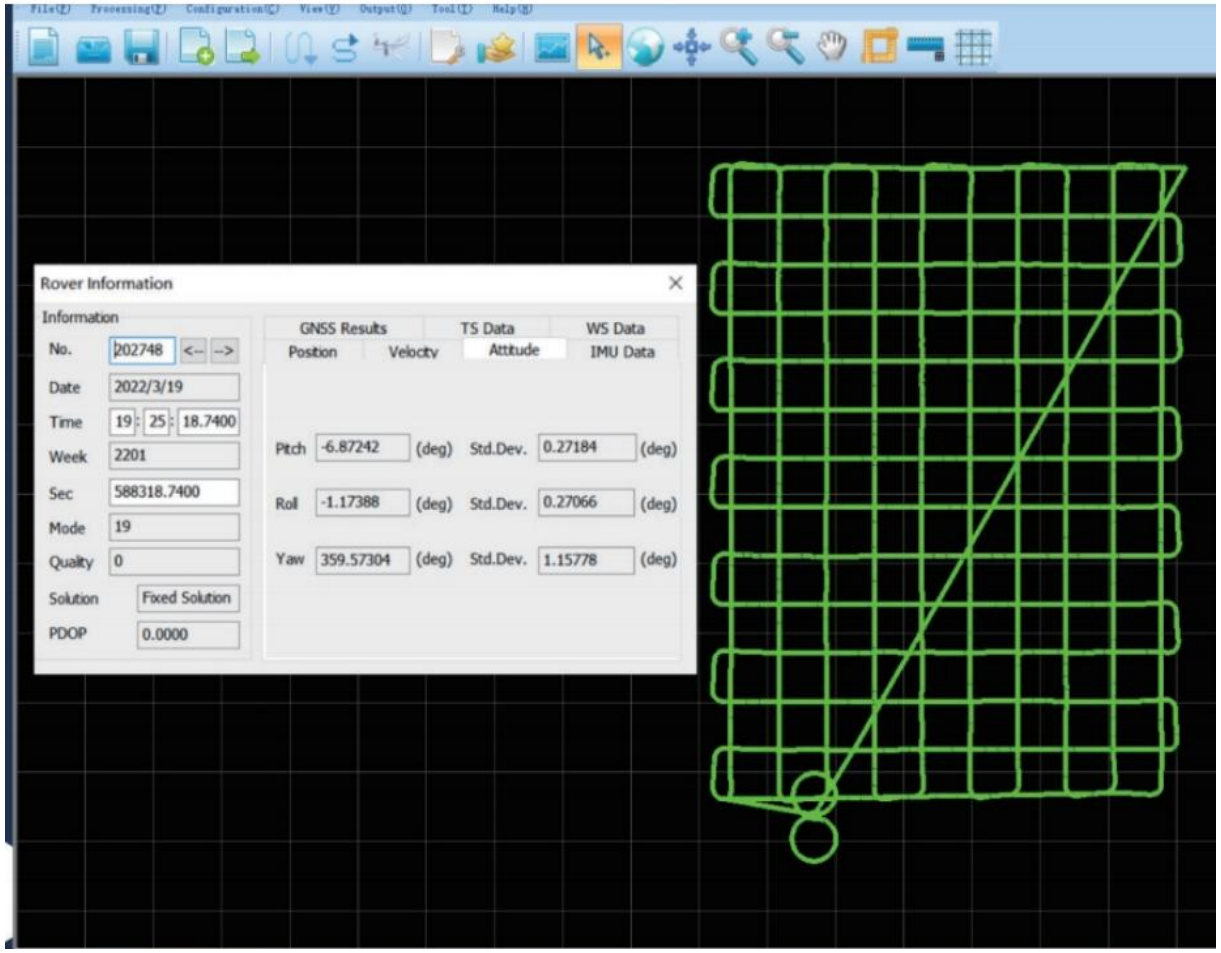


Unloaded Return Travel

①Exit parking position
②Travel to the stockyard
③Exit the stockyard with full load
④Transport material to the silo
⑤Exit the discharge area without load
⑥Return to parking position

Software - Trajectory Software

Pre-post processing software



The Leading Trajectory Software in the World

Shuttle is a high-precision GNSS/INS positioning and attitude determination post-processing software, independently developed by Wuhan Geosun Navigation Technology Co., Ltd., built-in high precision GPS/GLONASS/BDS/Galileo positioning velocity measurement processor. The system can process multi-mode GNSS positioning velocity measurement, GNSS/INS combined positioning attitude measurement, providing centimeter-level spatial position information of motion point (or carrier), centimeter-level speed information, and thousand-degree attitude information.

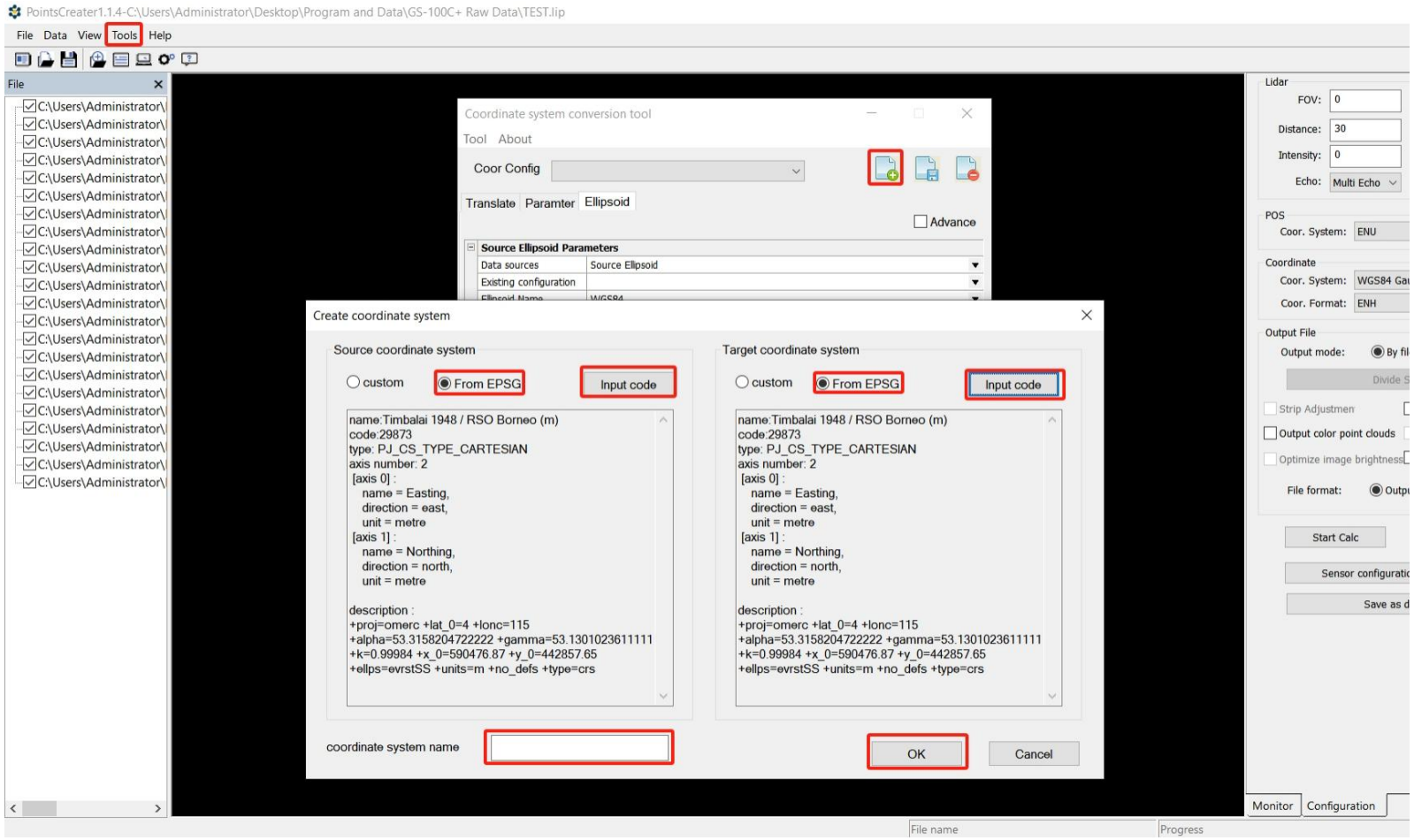
Shuttle adopts the world's leading single epoch ambiguity algorithm and high-order Kalman filter to maximize integrate the GNSS carrier phase and inertial navigation component (IMU) information.

The Main Function

GNSS high precision differential positioning velocity measurement
GNSS/INS high-precision combined positioning and attitude measurement
INS initial alignment
INS high order error model
Single and dual frequency ambiguity single epoch solution
Direct input of multi-format data

Software - PointsCreater Software (Aerial application)

Pre-post processing software



PointsCreater Software is a LiDAR data processing software.

Supporting the function of
Strips Adjustment
PointCloud Optimize (within 1cm Thickness)
Eliminate uncolored points
Optimize image brightness

Noise Filter

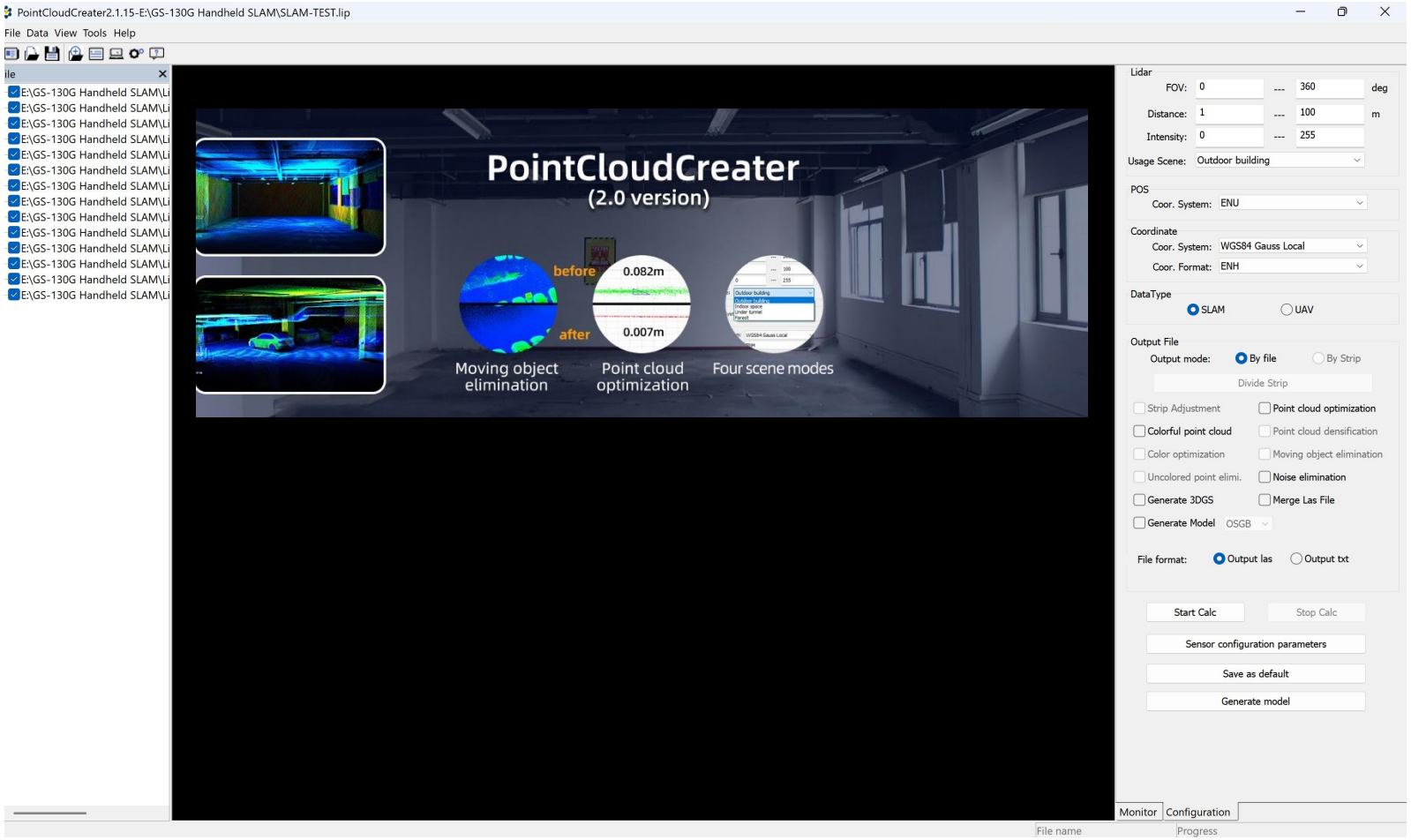
Output Color Point Cloud
Use high-precision results of POS to provide direct geographic reference to point cloud data



PointsCreater Software Interface

Software - PointCloudCreater Software (SLAM application)

Pre-post processing software



PointCloudCreater Software is a LiDAR data processing software.

Supporting the function of
Point Cloud Optimization (within 1cm Thickness)
Point Cloud Densificaiton

Moving Object Elimination

Noise Elimination

Generate 3DGS/OSGB modeling

Color Point Cloud Output

Use high-precision results of POS to provide direct geographic reference to point cloud data

PointCloudCreater Software Interface

Software - PCA Software

Post processing software



Make Point Cloud Post-processing and Classification Easier than Ever

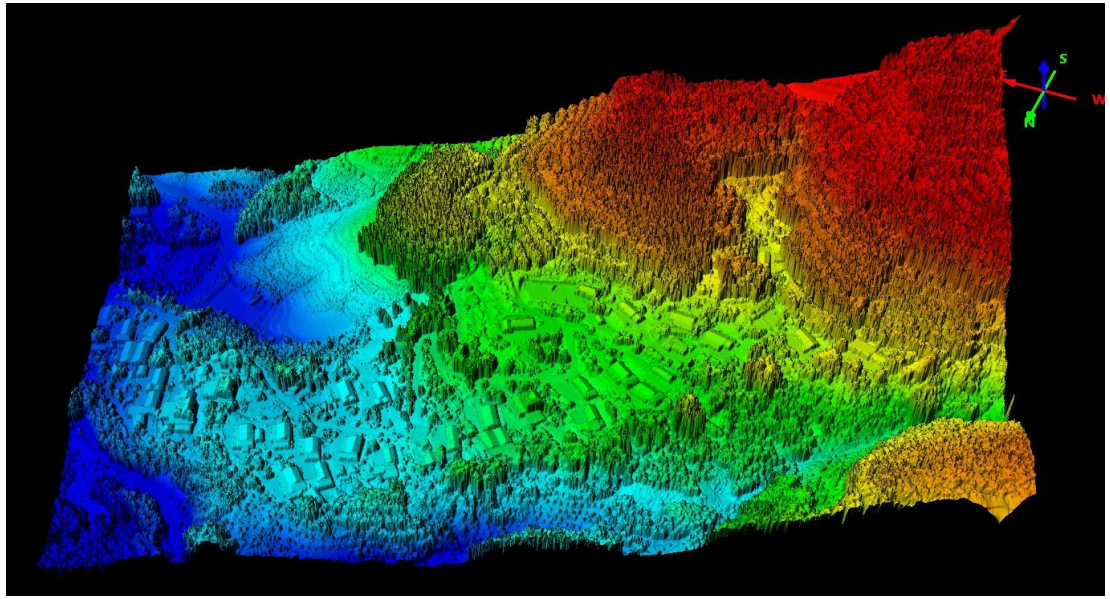
The PCA is a LiDAR point cloud processing and analyzing software. The PCA initially designed for Geosun point cloud data, but also is applicable for other type of point cloud data. The highlight of PCA is automatic processing, such as **filtering, classification and individual tree segmentation.**

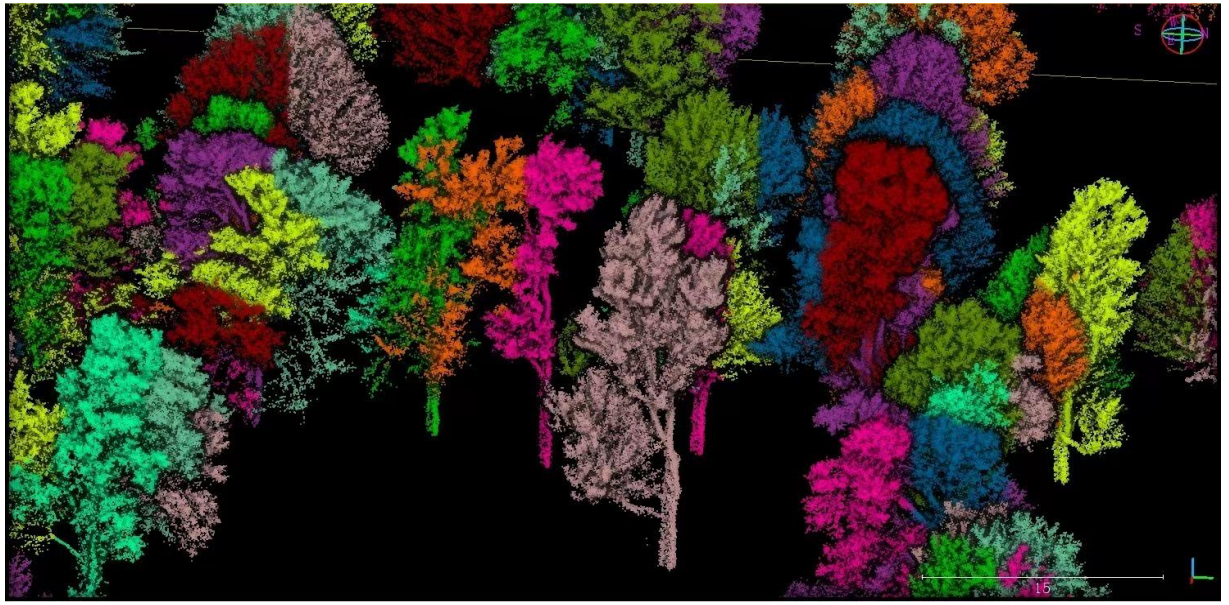
Main Feature

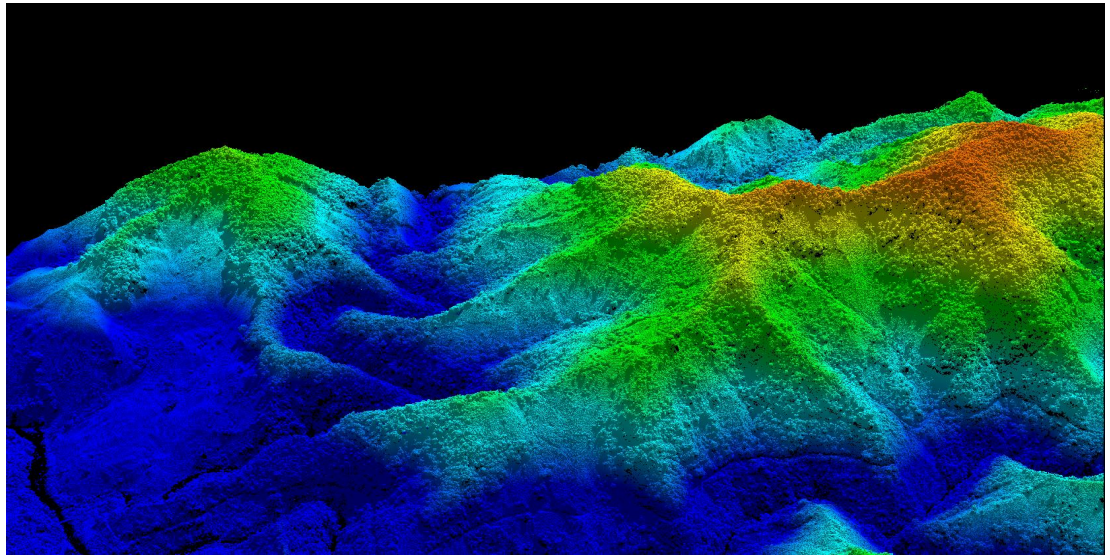
Extremely high density
Massive data
Precise location
Penetration of vegetation
Fusion of RGB and point cloud
Performing strip adjustment
No outliers
More applications

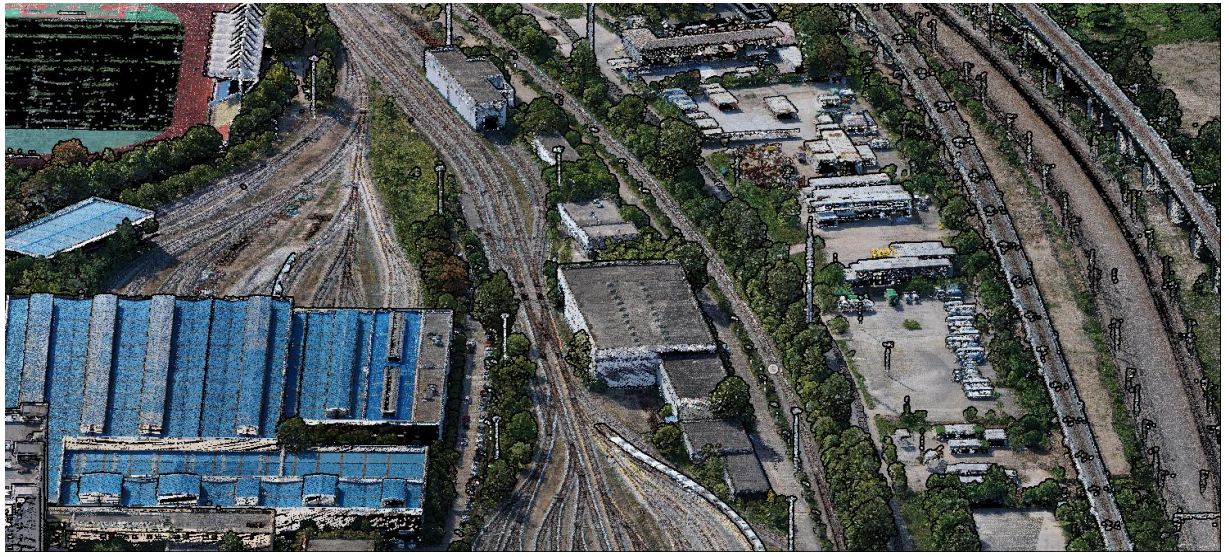
Software - PCA Software

The Output of Performance









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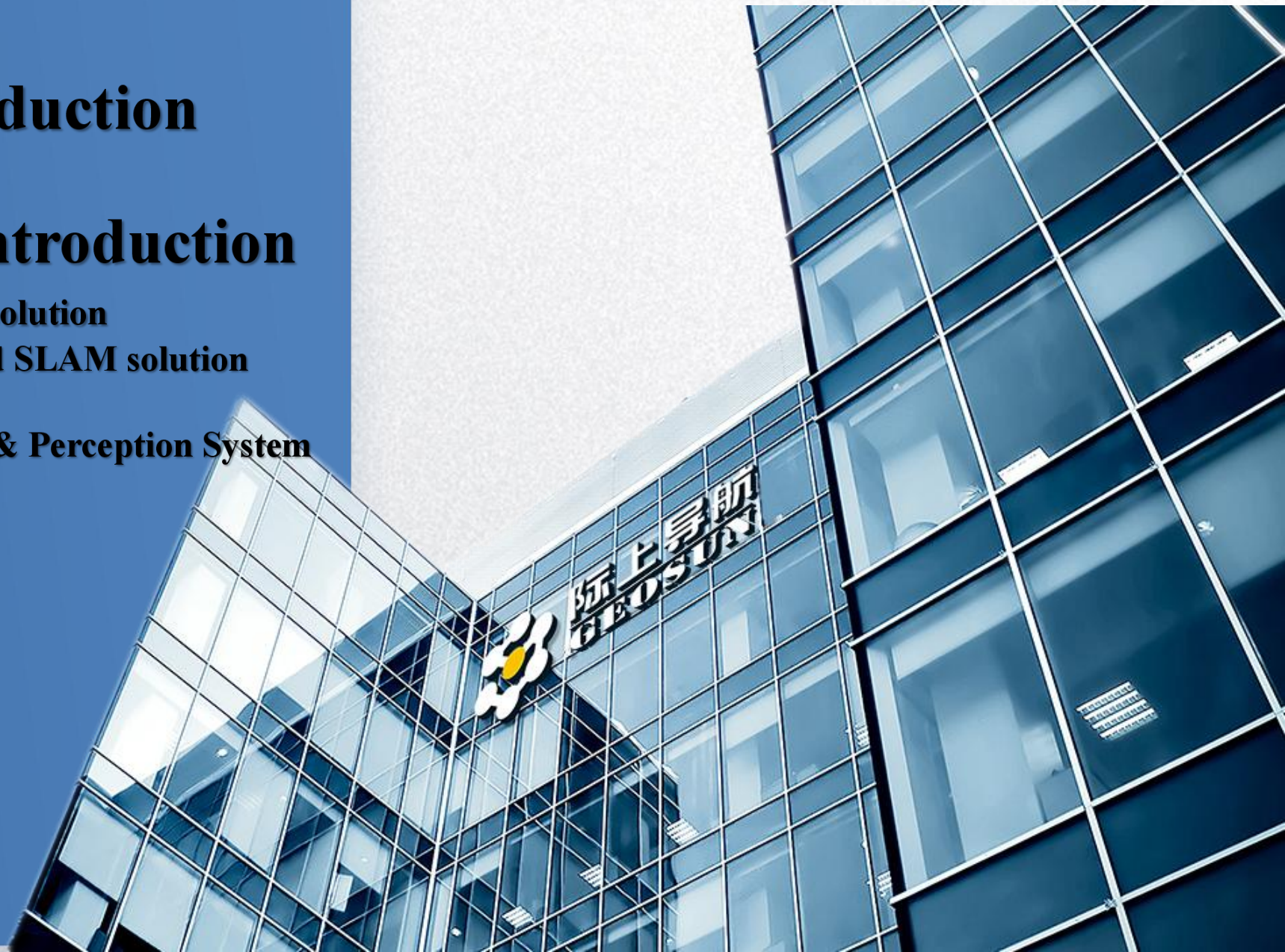
2. The Products Introduction

- 2.1 gAirhawk Series LiDAR solution
- 2.2 gFireEye Series Handheld SLAM solution
- 2.3 gCollector solution
- 2.4 Autonomous Positioning & Perception System
- 2.5 Software

3. Application

4. Sales Markets

5. Partners

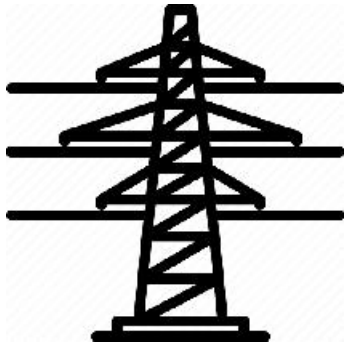


Application

LiDAR scanning systems are widely used in applications such as **Land and Resources**, **Agriculture**, **Forestry**, **Power Line Patrol**, **Surveying & Mapping**, **Archaeology, and Engineering,** its rapid data collection and quick data processing for high accuracy 3D point cloud model.



Forestry



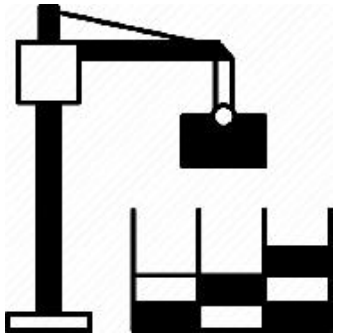
Power Line Patrol



Mining



Mapping & Surveying



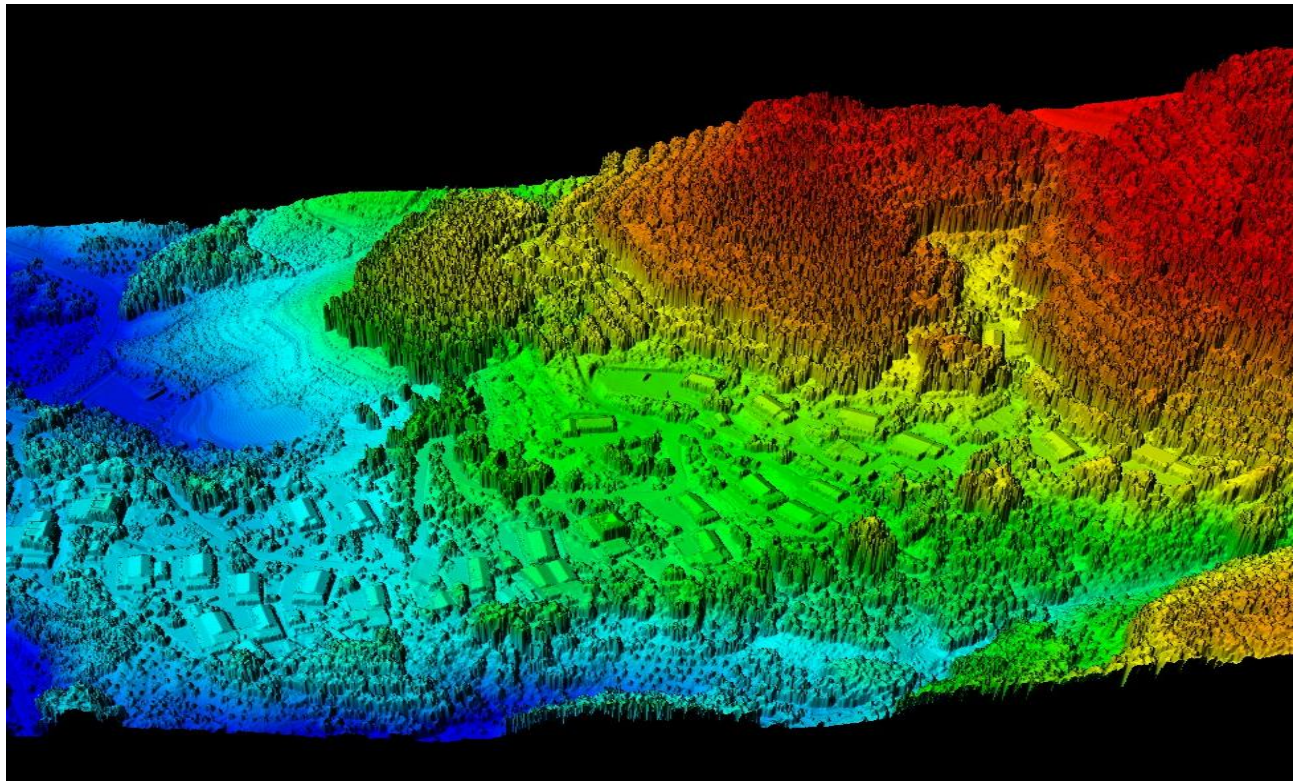
Engineering



Archaeology

Application in Forestry

The use of LiDAR technology in the forestry sector has evolved over the decades. LiDAR applications are becoming more efficient and cheaper, increasing their potential in forestry. LiDAR technology has seen a surge in the forestry sector due to its ability to map the arrangement of forests, determine the size of forested areas, estimate biomass, identify changes, and assess potential forest hazards. This technology can aid forestry professionals in making more informed management decisions and developing plans by providing detailed, 3D information.



Terrain and Geomorphological Applications: Forest planning and management and creating digital elevation products (digital surface model [DSM], digital terrain model [DTM]).

Forest Inventory: Provide detailed information on forest structures, including tree height, diameter, volume, leaf area index, etc.

Forest Fire Management: Monitor forest fire patterns, information on forest fuel load, etc.

Forest Restoration: Identify degraded forest areas and plan forest restoration activities.



Application in Power Line Patrol

LiDAR usage in power line patrol offers unique advantages. LiDAR point clouds and 3D maps allow grid operators to measure the distance between the foliage, different vegetation and power lines. This in turn allows them to make well-informed decisions and predict the areas that will become problematic in the near future.

LiDAR allows measuring of wire profiles, enabling the grid operators to fix sagging power lines.

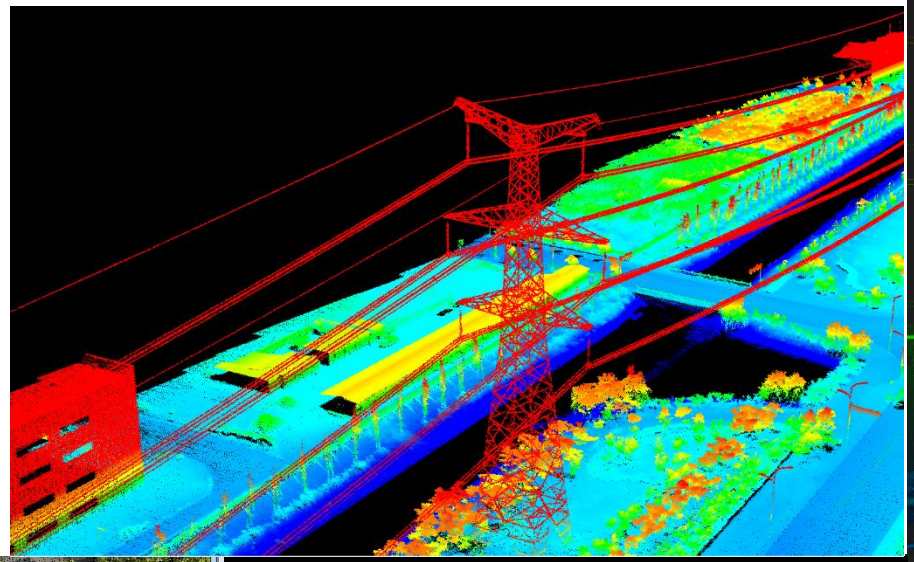
In post-storm observations, LiDAR allows to detect tilting trees that are dangerously close to the power lines or might pose a threat, should they fall down.

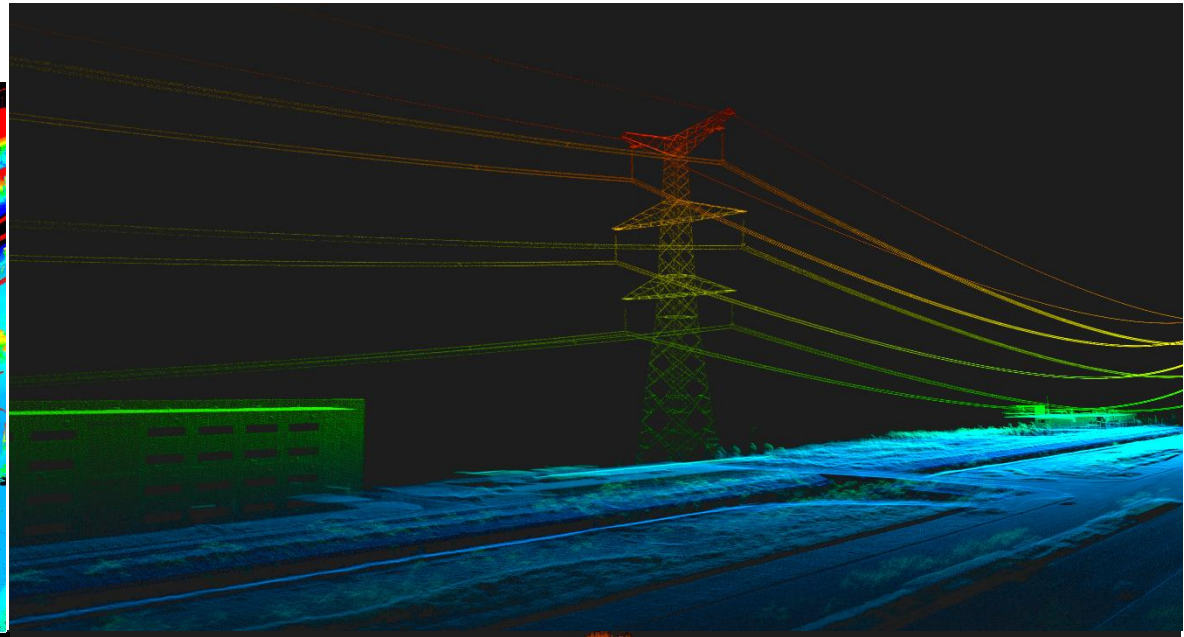
Vegetation analysis

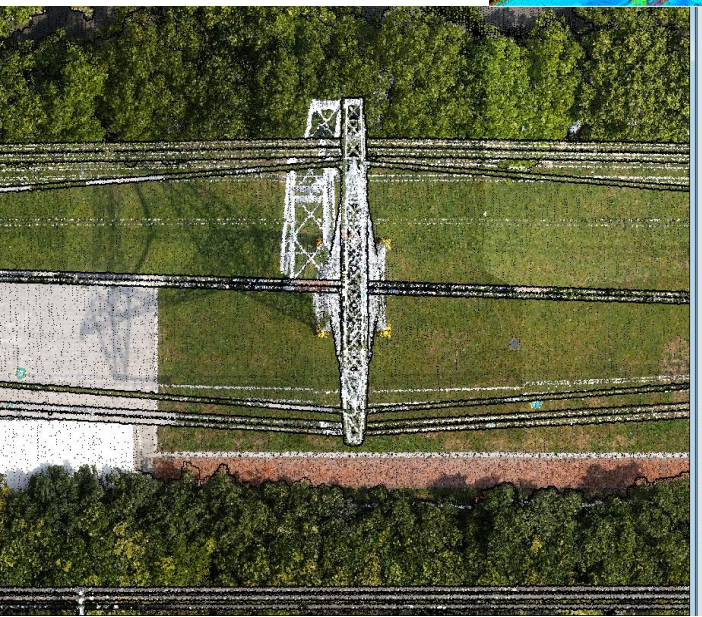
Distance calculations

Wire profiles and sagging detection

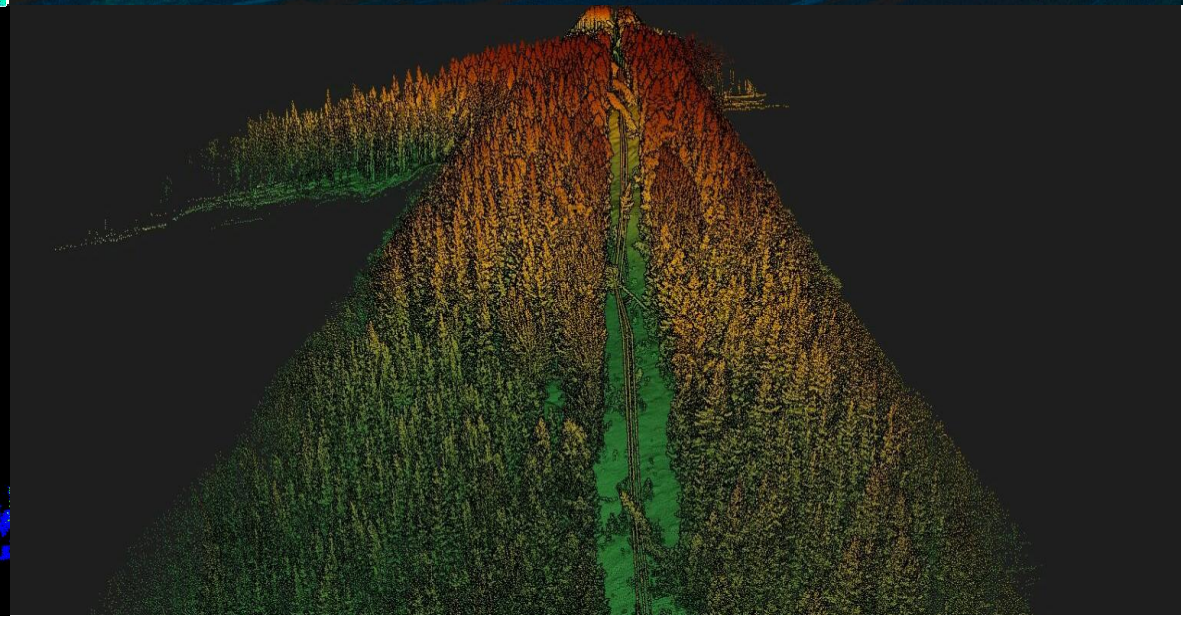
Detection of dangerous trees









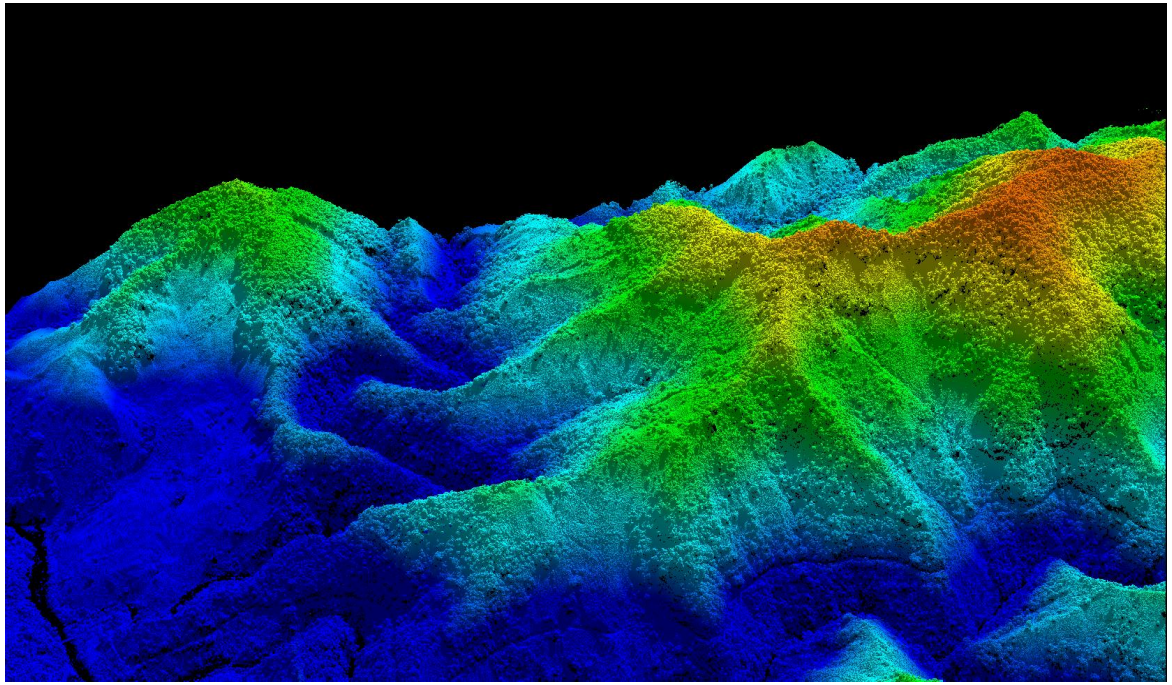


Application in Mapping & Survey

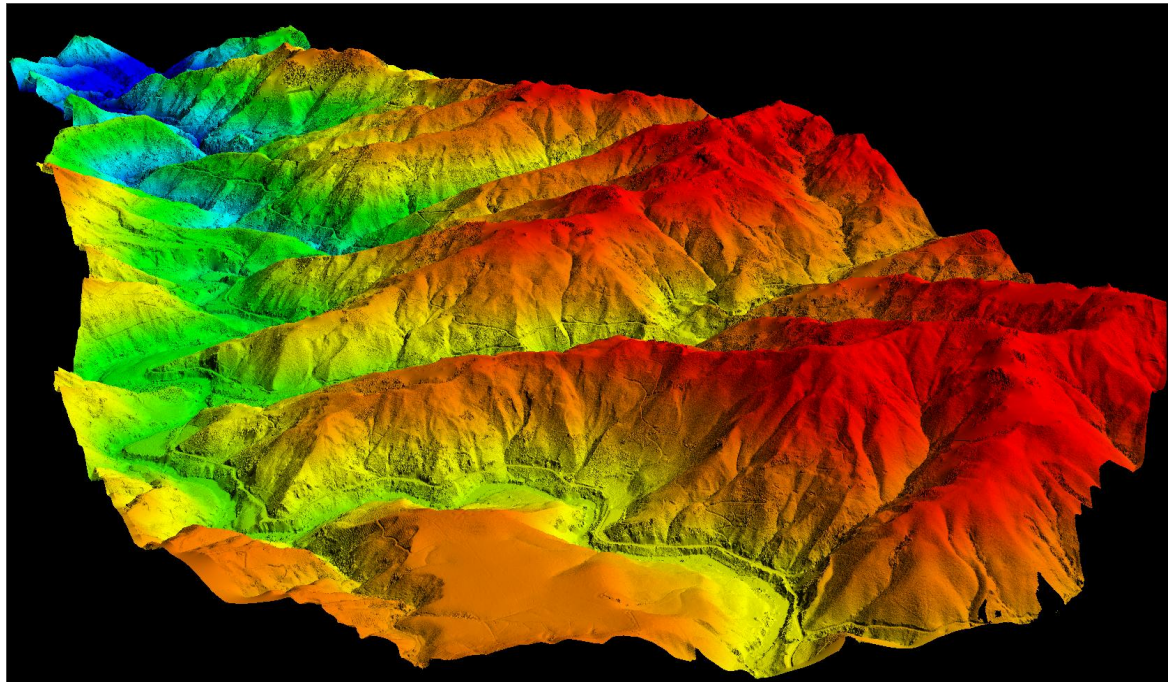
LiDAR technology has revolutionized the way mapping and surveying is done. The use of drones equipped with LiDAR systems provides accurate and efficient data collection for various industries. LiDAR surveying is a fast and effective way to capture 3D data. Using laser pulses to calculate distances, capture precise measurements and measure ranges is growing in popularity. This simple way to collect data is accurate, quick, and flexible.

It is widely used by companies in the remote sensing field. They can be used to create DTM (Digital Terrain Model), DEM (Digital Elevation Model), DOM (Digital Othorphoto Model), DLG, Contour Line...

High Accuracy
Flexibility

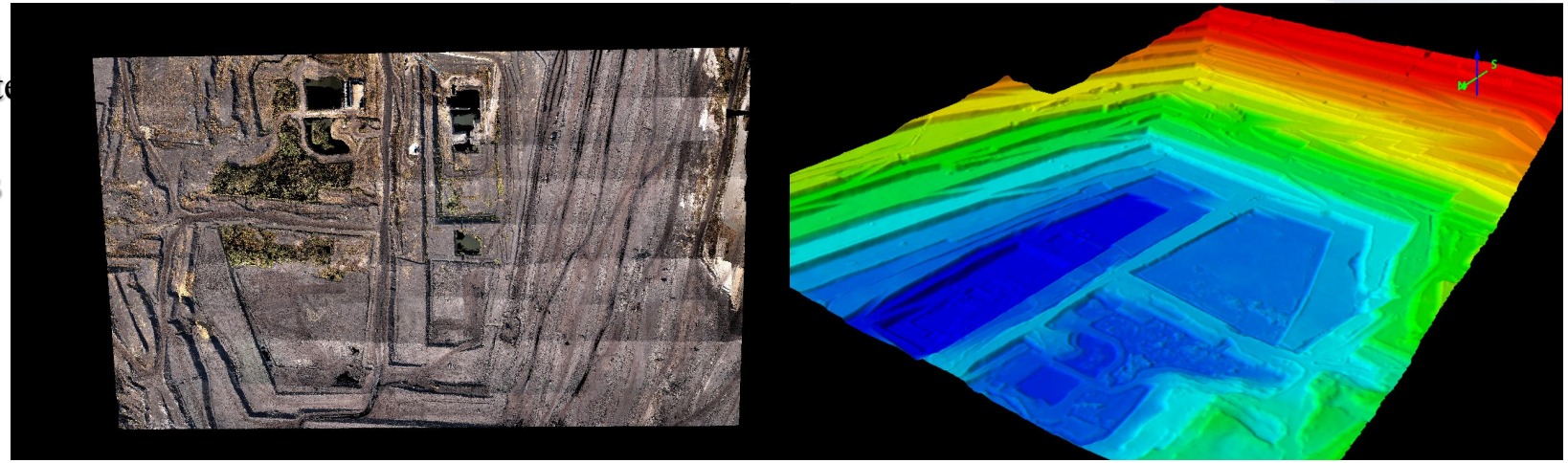


High Efficiency
Safety



Application in Mining

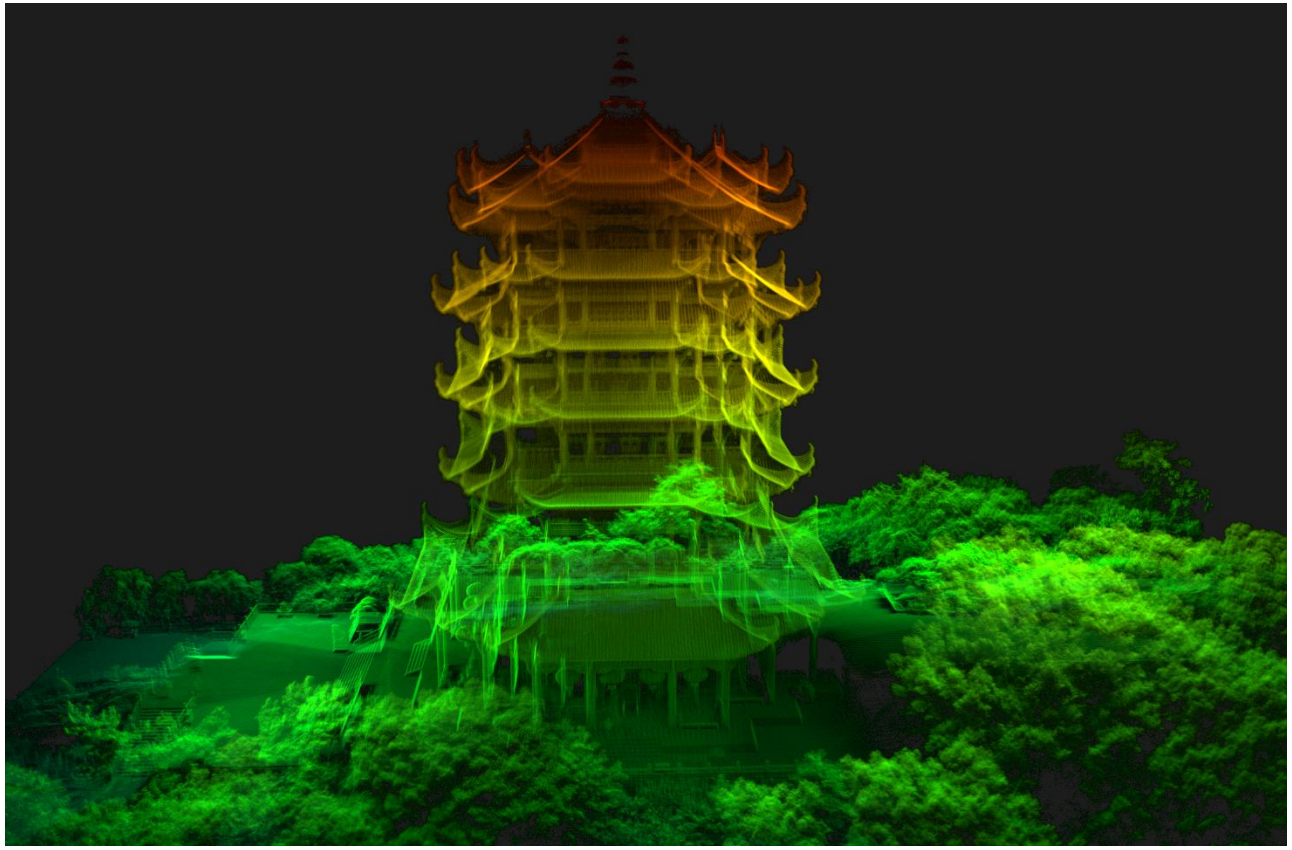
LiDAR technology can be used to produce accurate volumetric maps of areas within a mine, create detailed models of ore bodies and conduct surveys at scales not possible with other technologies.
It is also used in **mineral exploration**, **natural resource management** and **environmental assessment.**



Application in Archaeology

Remote sensing technologies have helped to revolutionize archaeology. LiDAR (light detection and ranging), a remote sensing technology in which lasers are used as topographic scanners that can penetrate foliage, has particularly influenced researchers in the field of settlement or landscape archaeology. LiDAR provides detailed landscape data for broad spatial areas and permits visualization of these landscapes in ways that were never before possible. These data and visualizations have been widely utilized to gain a better understanding of historical landscapes and their past uses by ancient peoples.



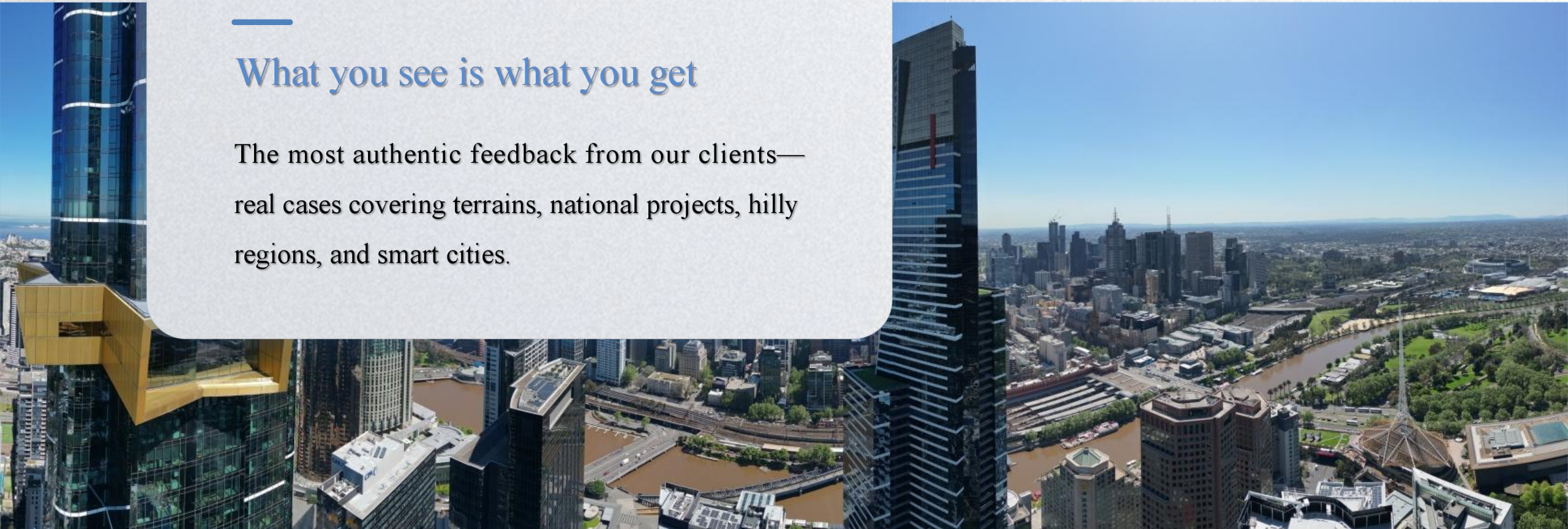


Geosun

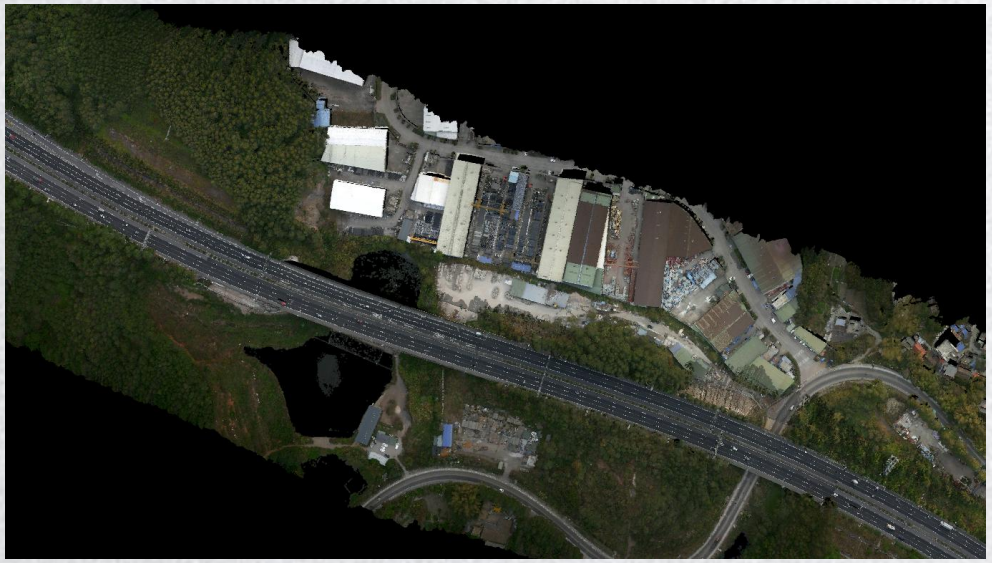
Real cases from **customers**

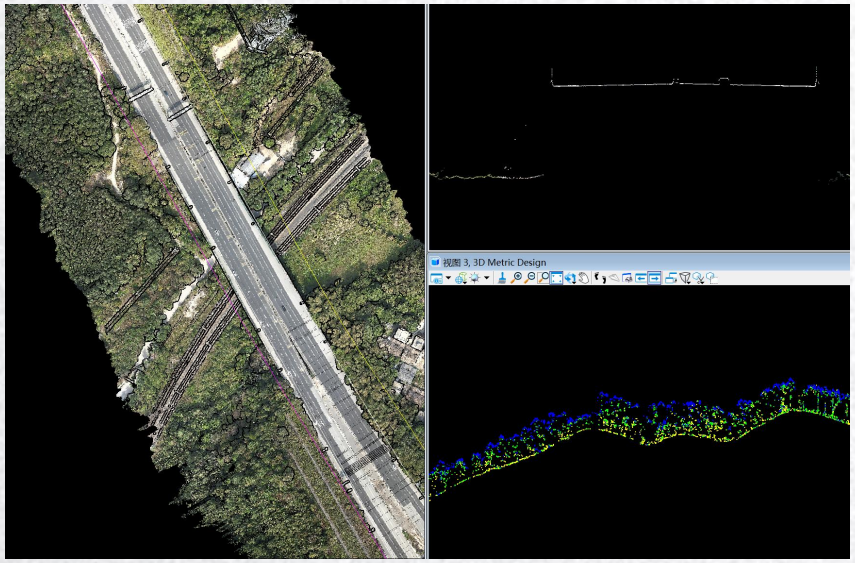
What you see is what you get

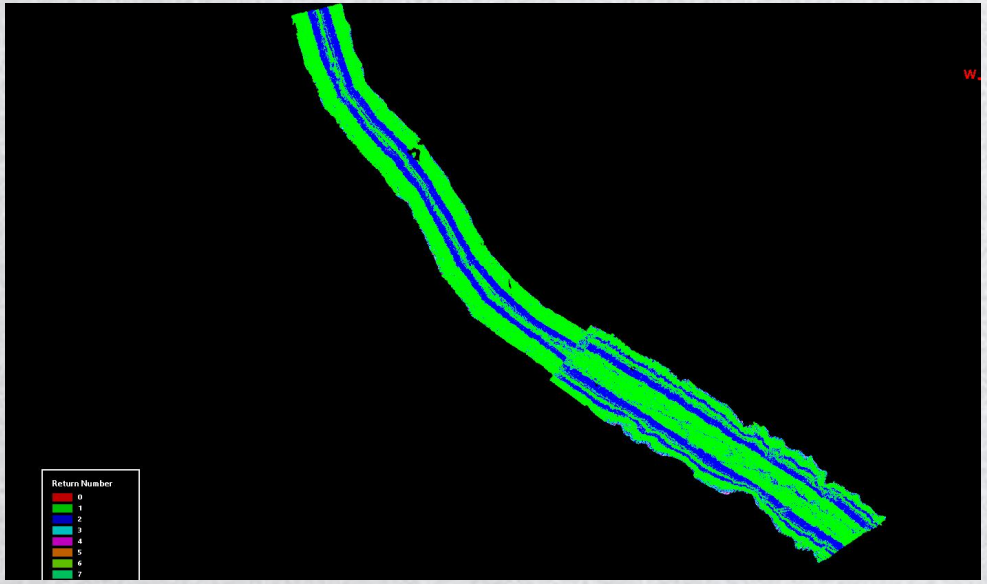
The most authentic feedback from our clients—real cases covering terrains, national projects, hilly regions, and smart cities.



The Reference









Project

Application for Highway Mapping & Surveying
Client China Railway

Model

GS-2000R (Riegl Laser Sensor)

160m Flight Height

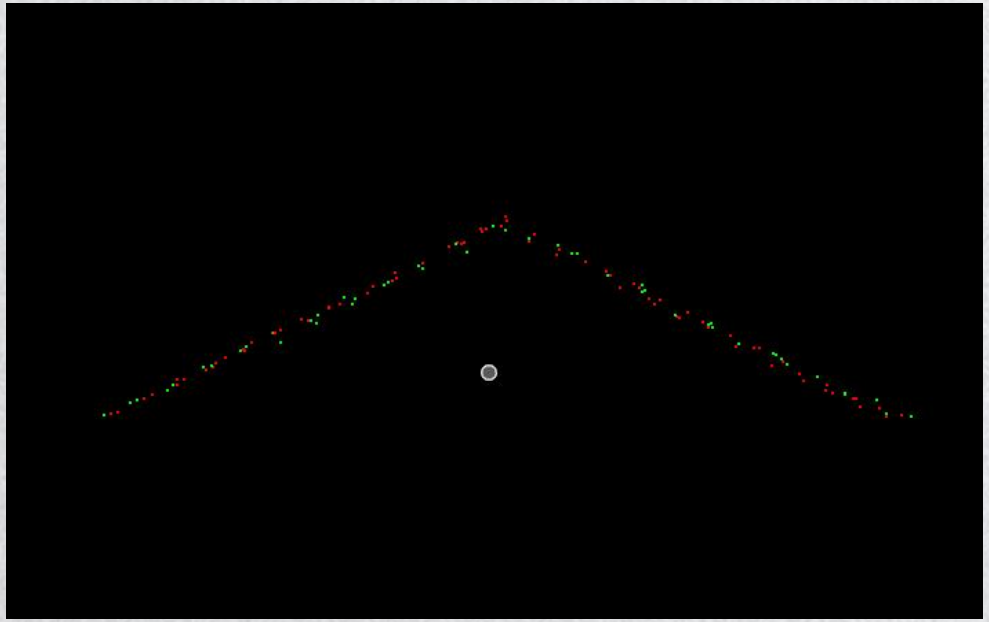
10 m/s Speed

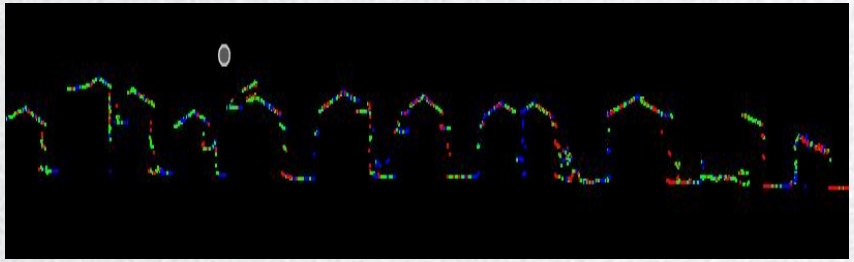
2-3 cm Accuracy

The Reference









Project

Application for Mapping & Surveying
The Thickness of Point Cloud reach to 3 cm
The Density 60 pts/m2

Client JOUAV

Model

GS-2000N

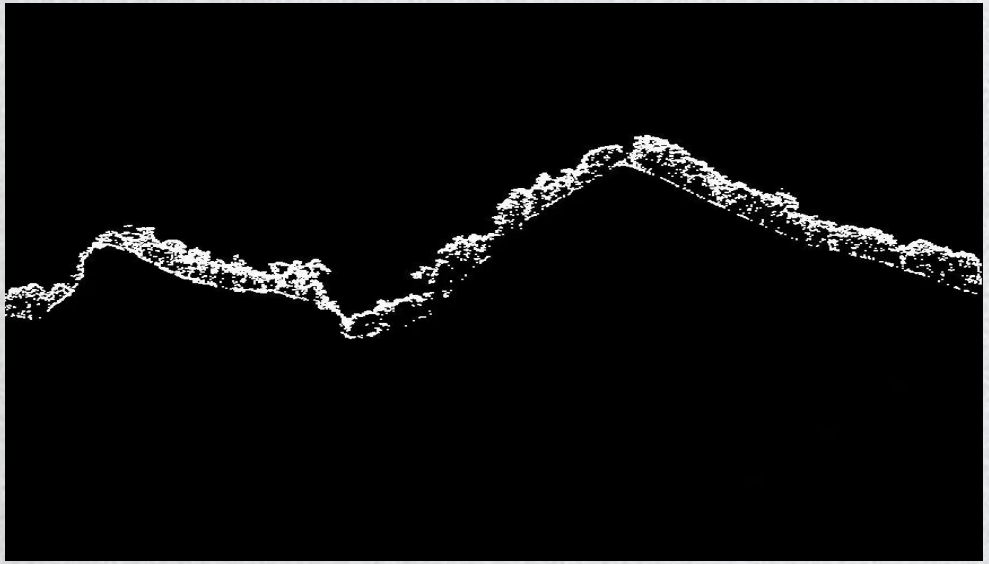
300m Flight Height

20 m/s Speed
Monuted on VTOL Fixed Wing Drone

The Reference







Control report - C:\Users\19182\Desktop\202306150730\检查点.txt

File Sort Apply

Use	Number	Easting	Northing	Known Z	Laser Z	Dz
☒	1	603333.20	3360347.50	124.664	124.673	+0.009
☒	2	603298.34	3360353.57	124.562	124.584	+0.022
☒	3	603294.76	3360352.01	124.569	124.536	-0.033

Average magnitude	0.0213	Average dz	-0.0007
Std deviation	0.0287	Minimum dz	-0.0330
Root mean square	0.0235	Maximum dz	+0.0220

Show location Identify

Project

Application for Hilly Mapping & Surveying
The Height Difference 200m

Anhui Huangshan

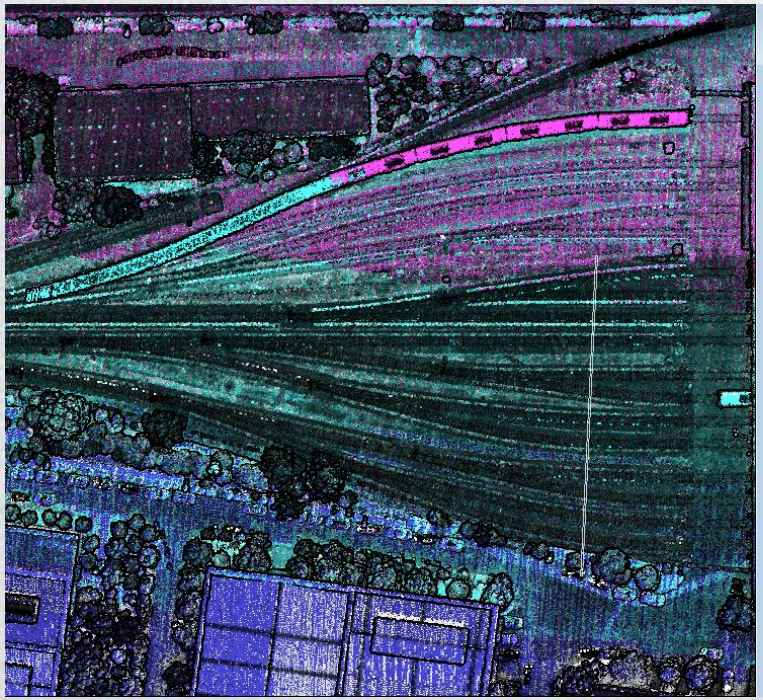
Model

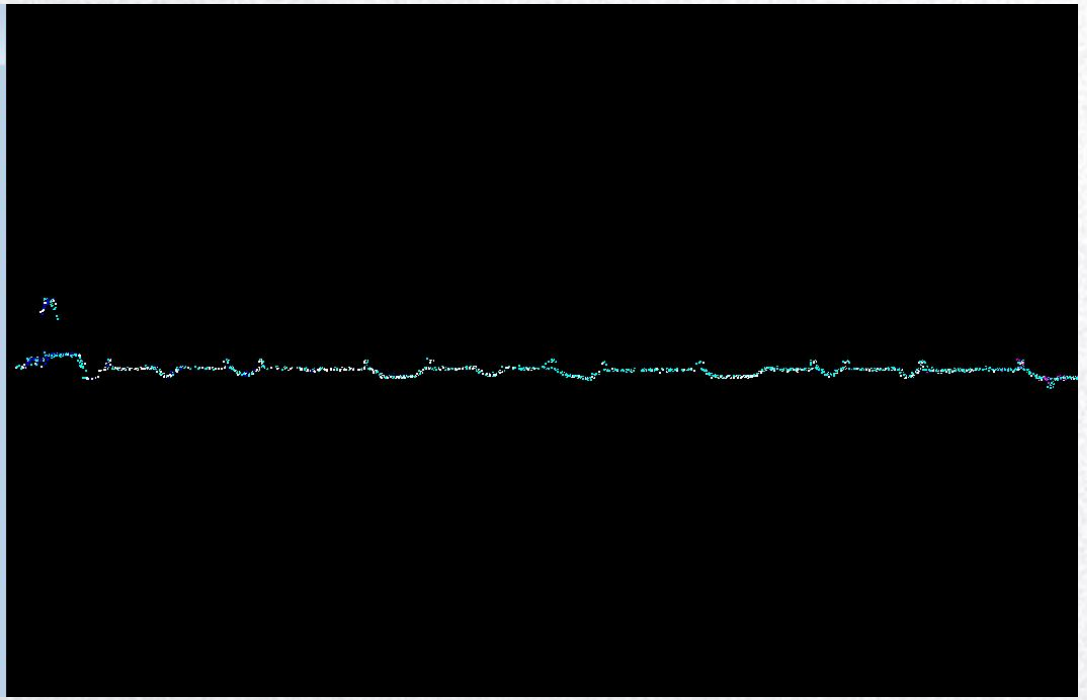
GS-1500N

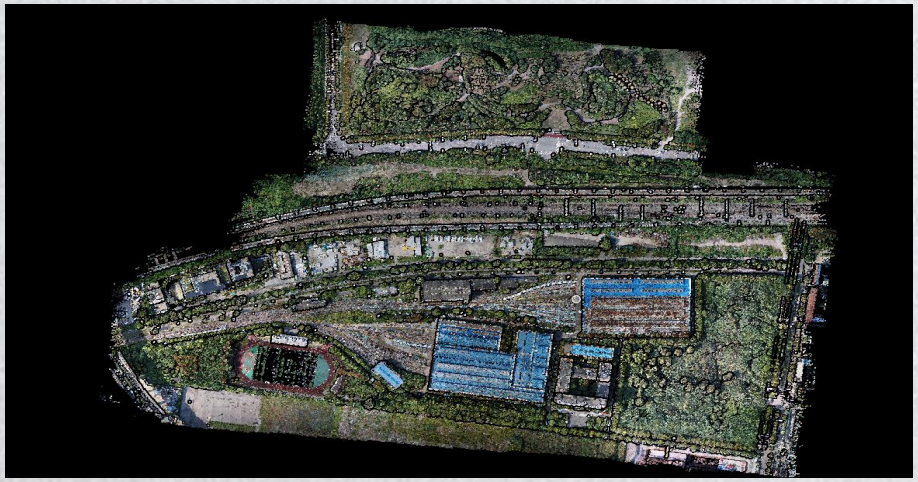
200m Flight Height

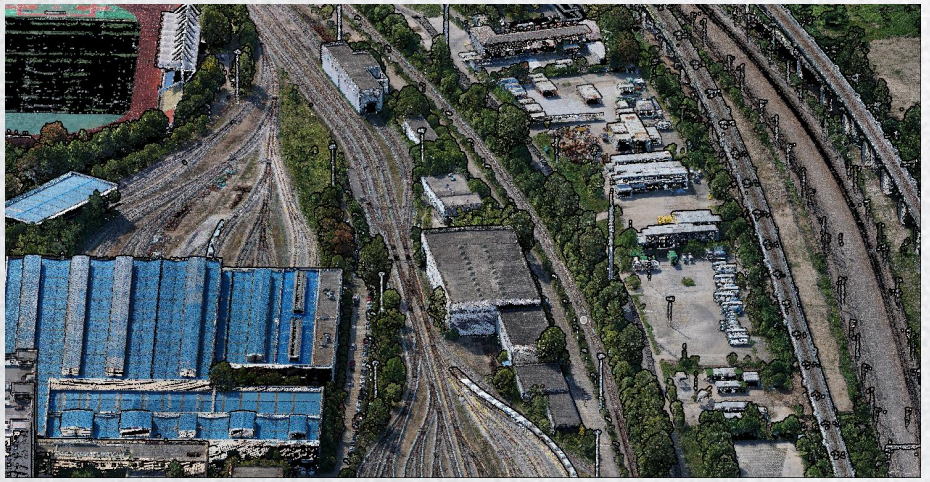
10 m/s Speed
3 cm Accuracy

The Reference









Project

Application for City Construction

Client Wuhan Institute of Surveying and Mapping in China

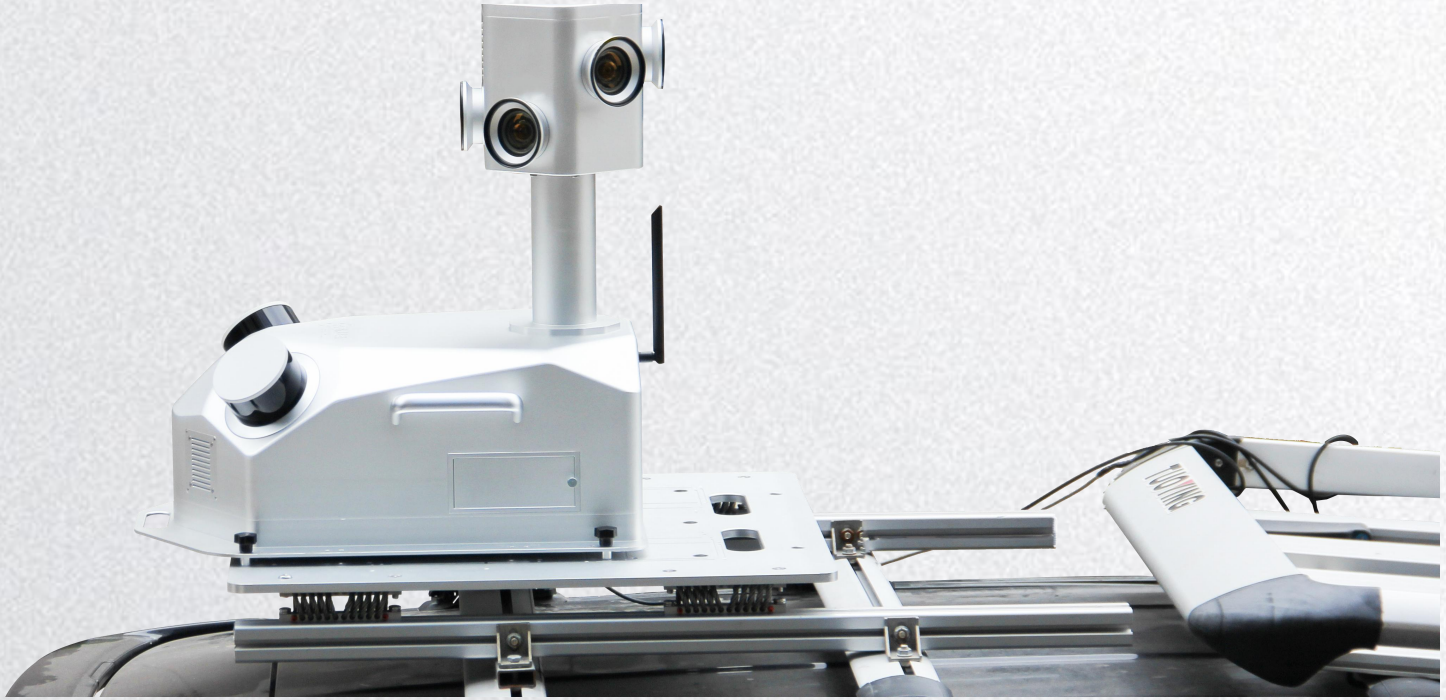
Model

GS-260X

120m Flight Height

8m/s Speed

The Reference

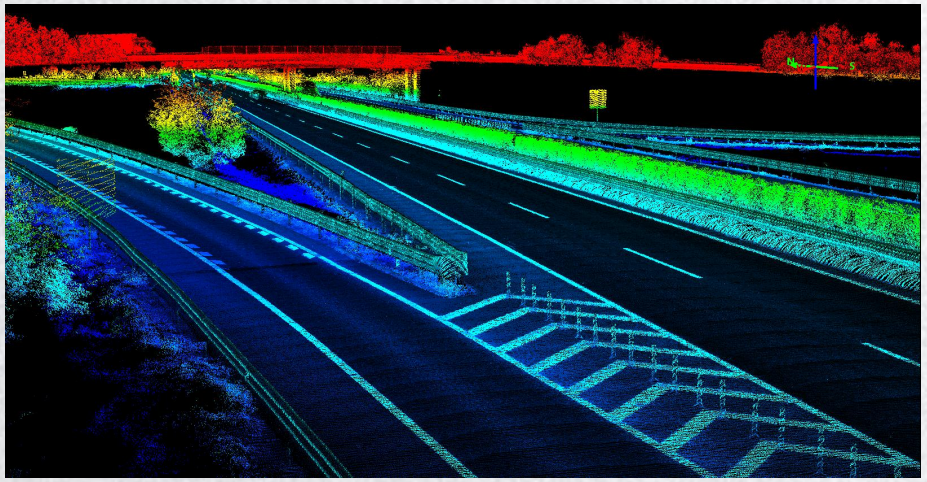


Project

Application for Urban Expressway

Client Ningbo Road Management Company





Model

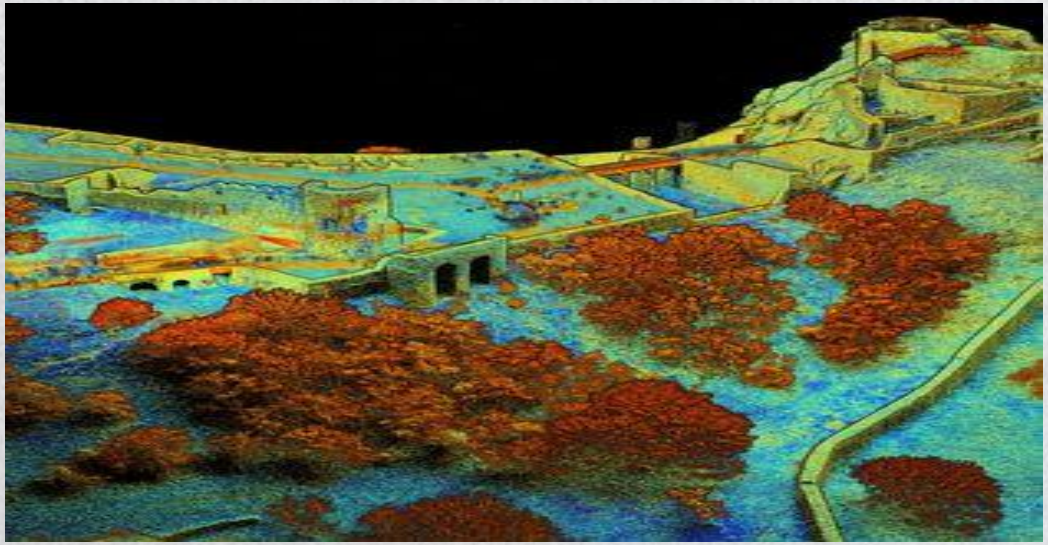
GS-260X +Wheel Sensor

80 Km/h Speed With High Density

The Reference









Project

Application for Cultural Relics

Client Slovakia

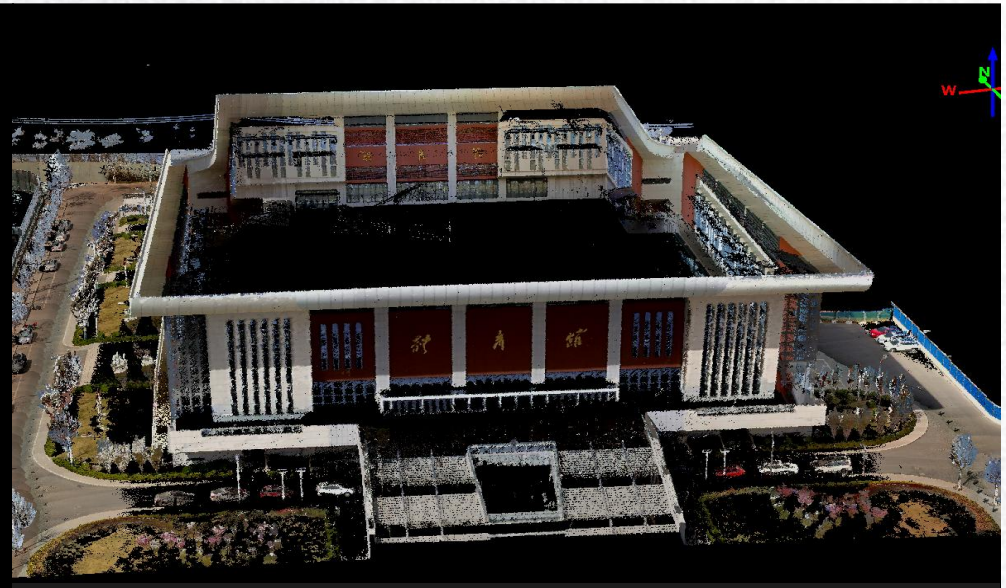
Model

GS-130X
Flight Height 80m AGL

6 m/s Speed

The Reference









Project

Handheld SLAM + Drone in Engineering Construction Application

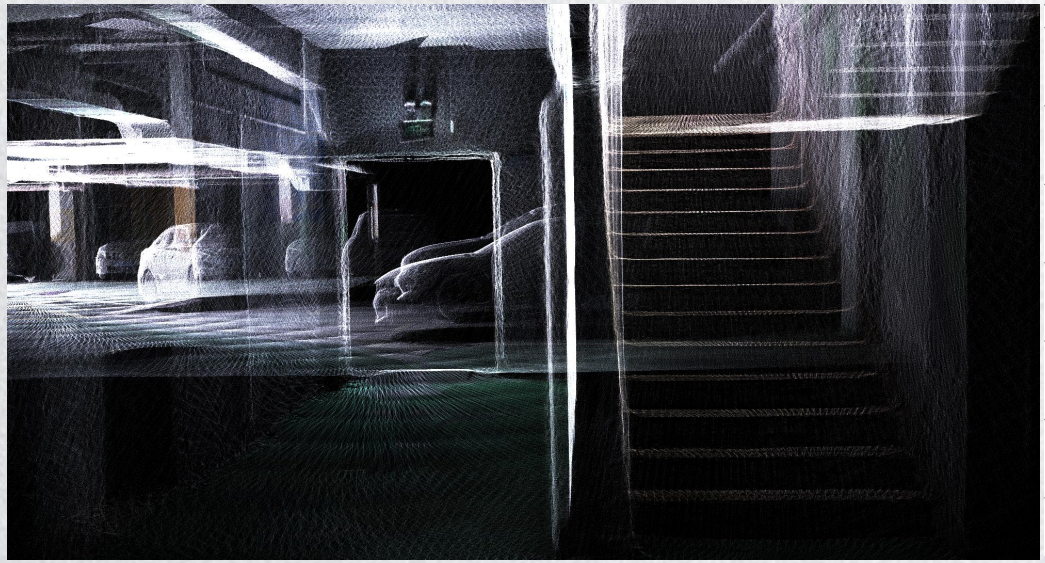
Model

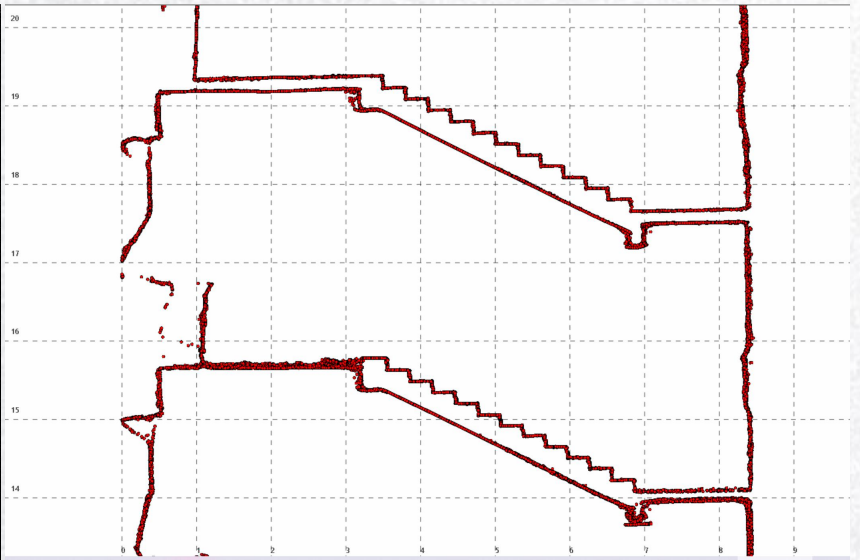
GS-260X + GS-120G

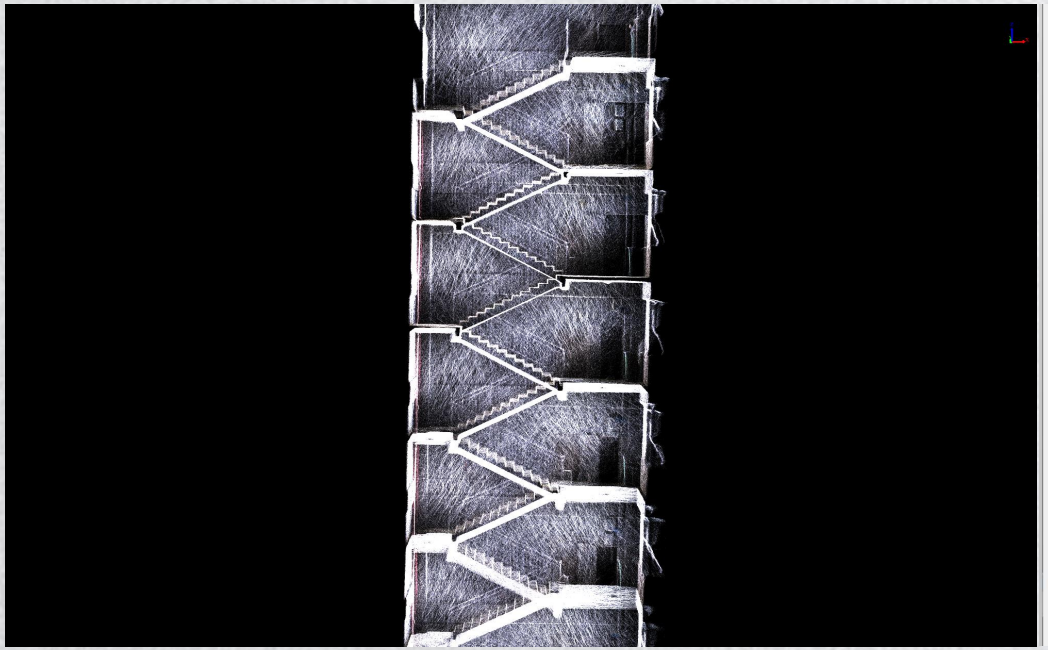
Combination

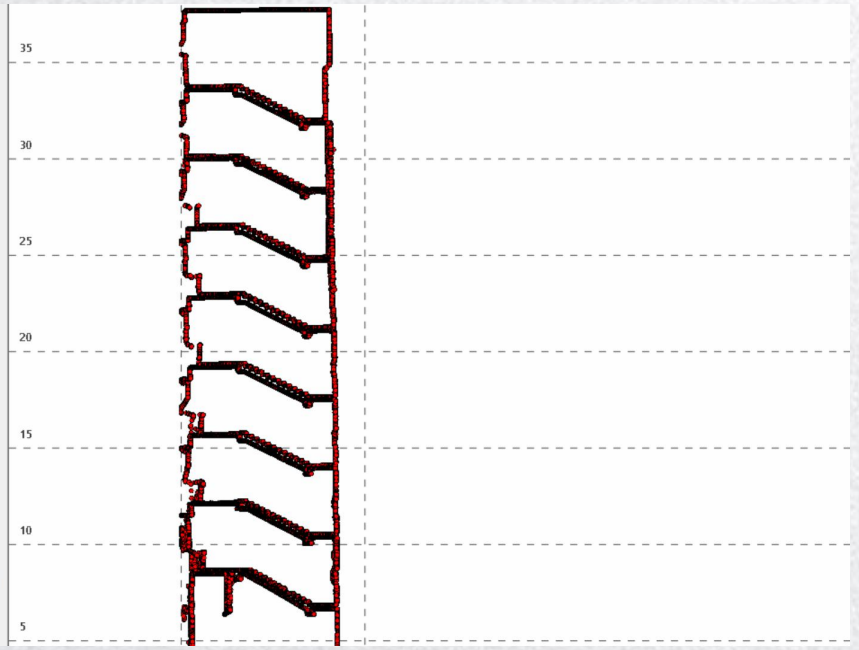
LiDAR/SLAM Solution

The Reference









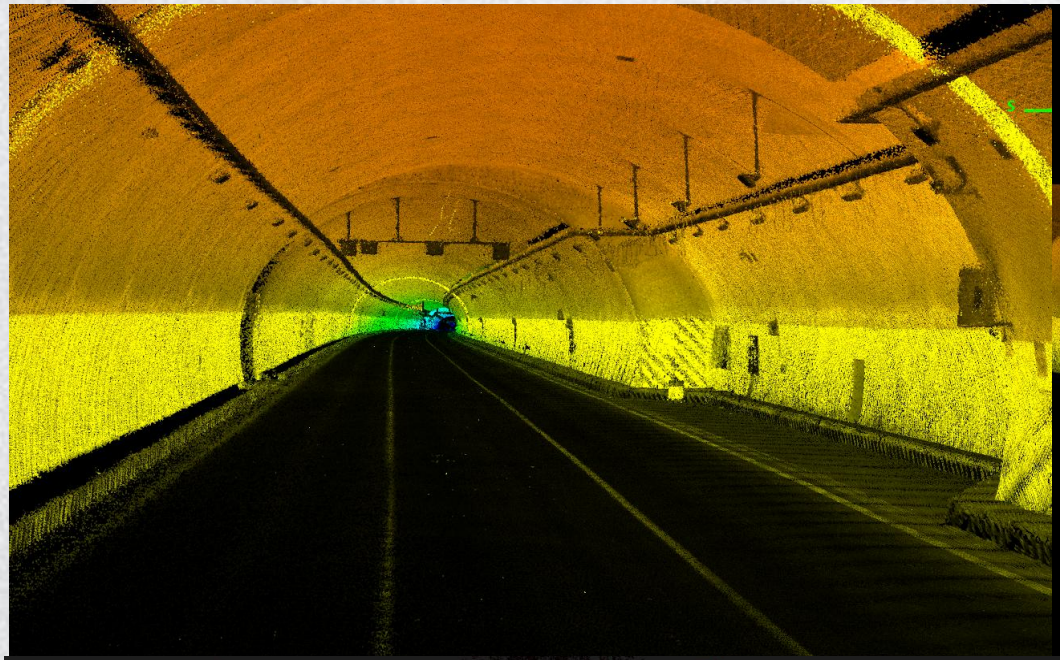
Project

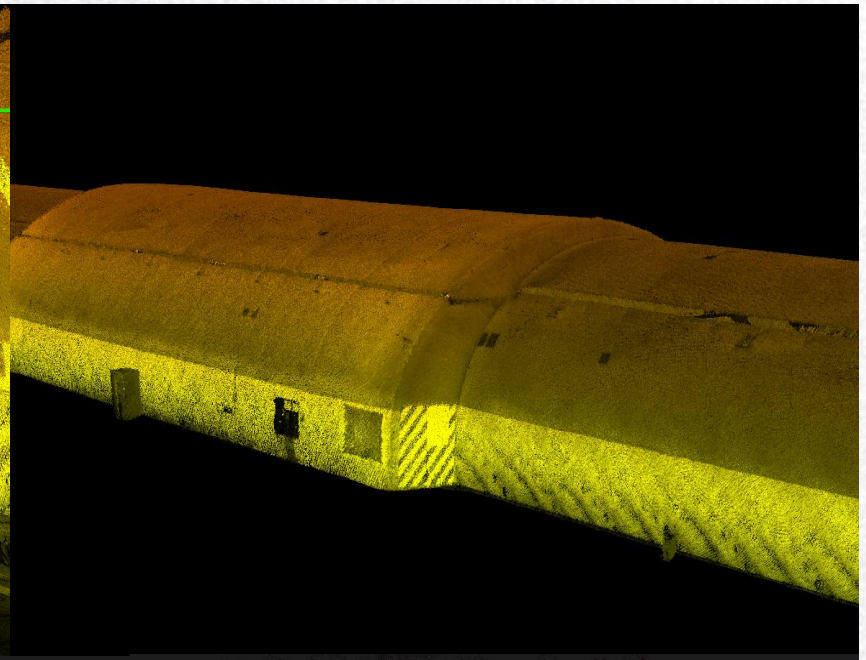
Handheld SLAM in Engineering Construction Application

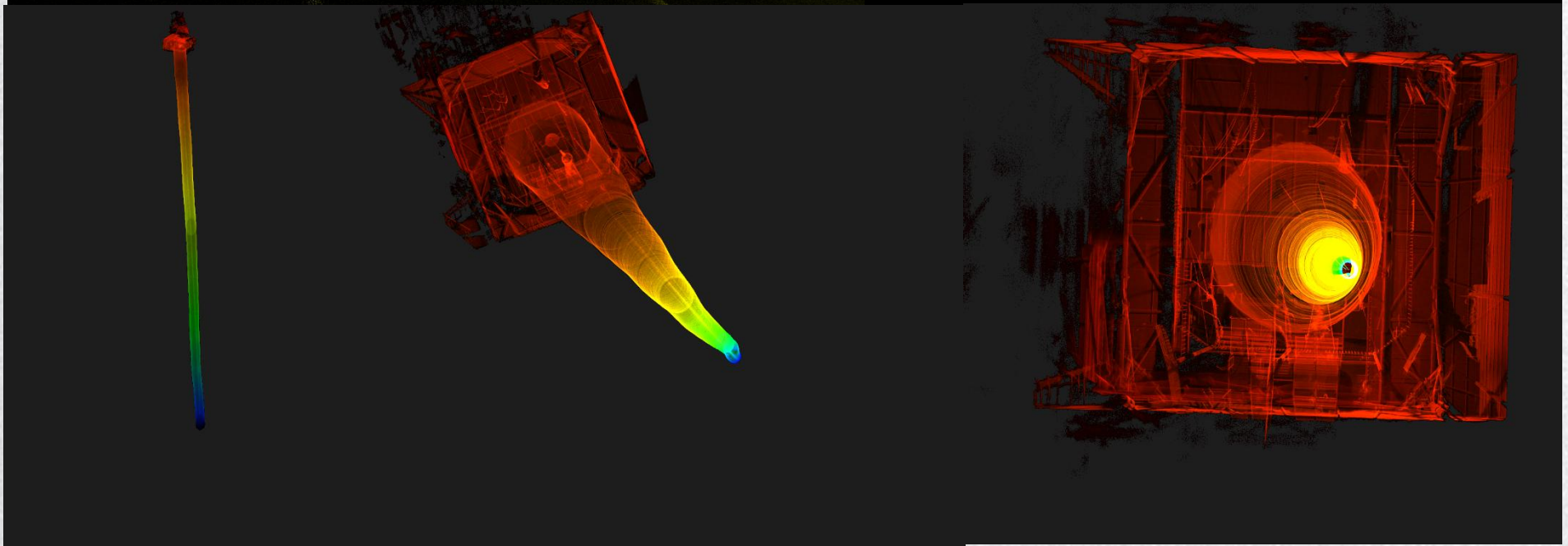
Model

GS-130G Handheld SLAM

The Reference







Project

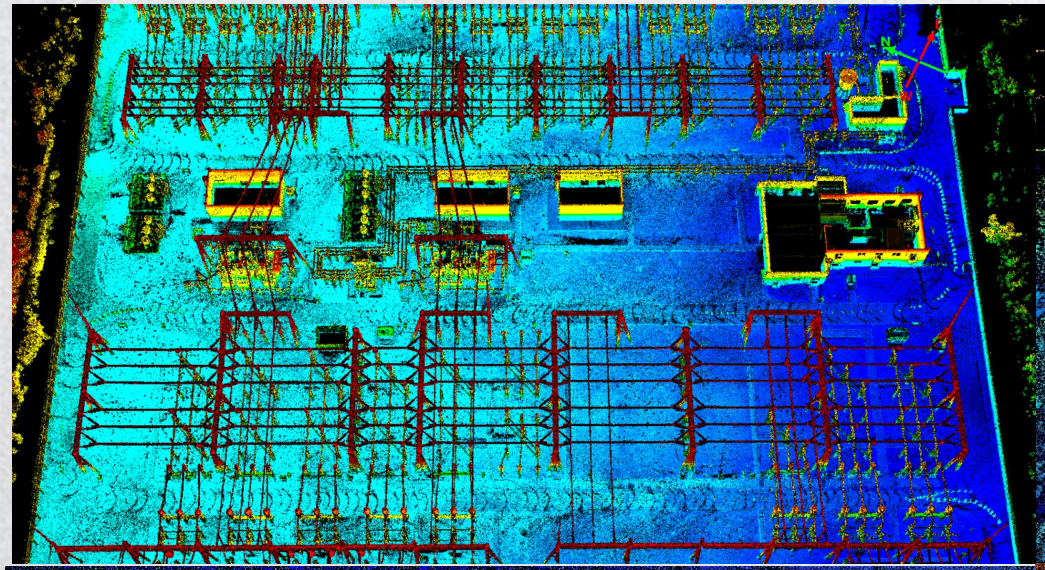
Handheld SLAM in Tunnel Application

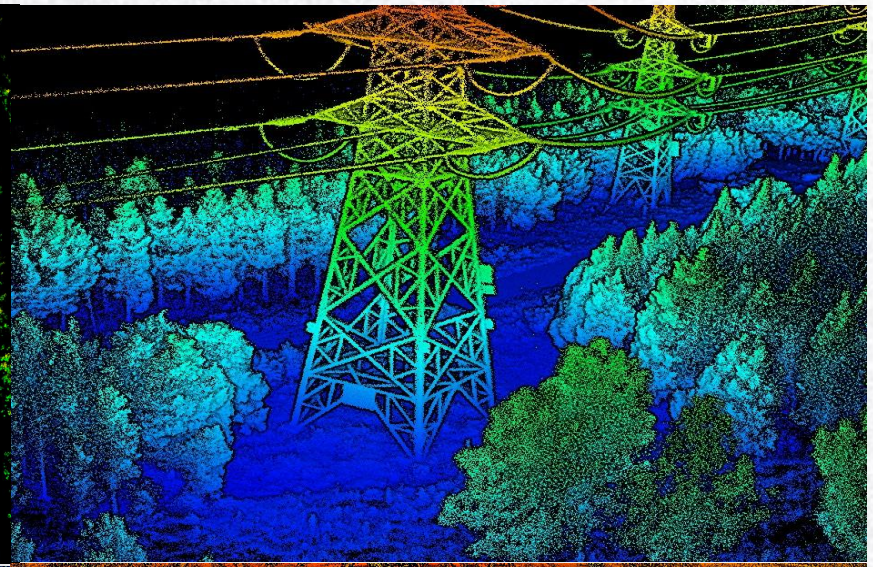
Model

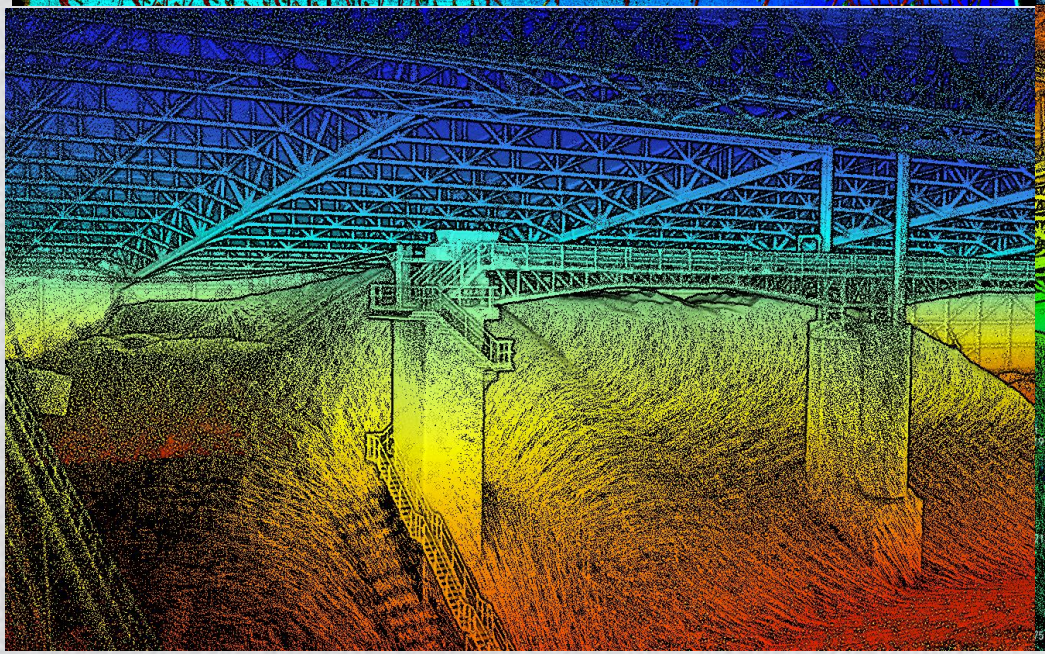
GS-120G/GS-130G

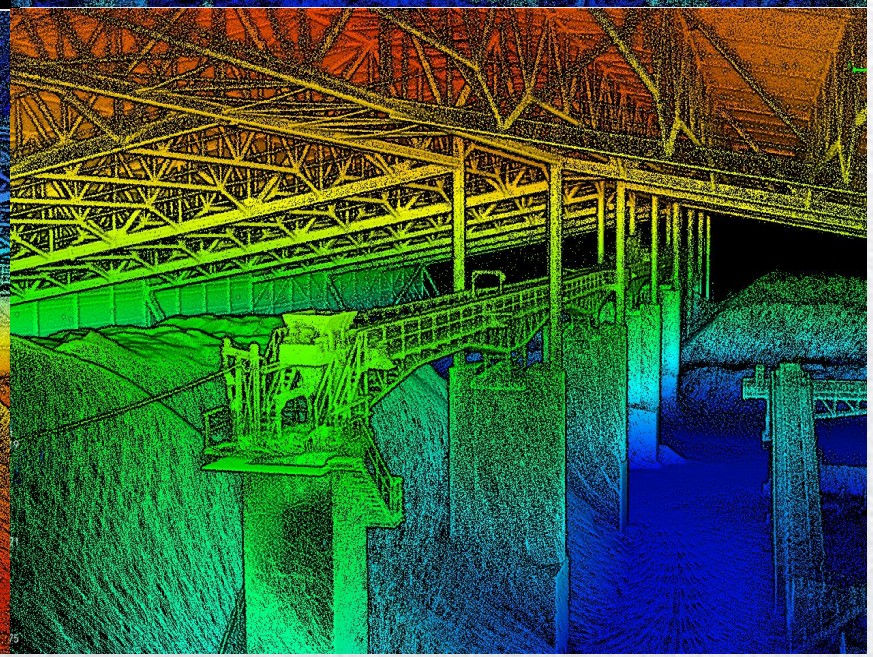
Handheld SLAM

The Reference









Project

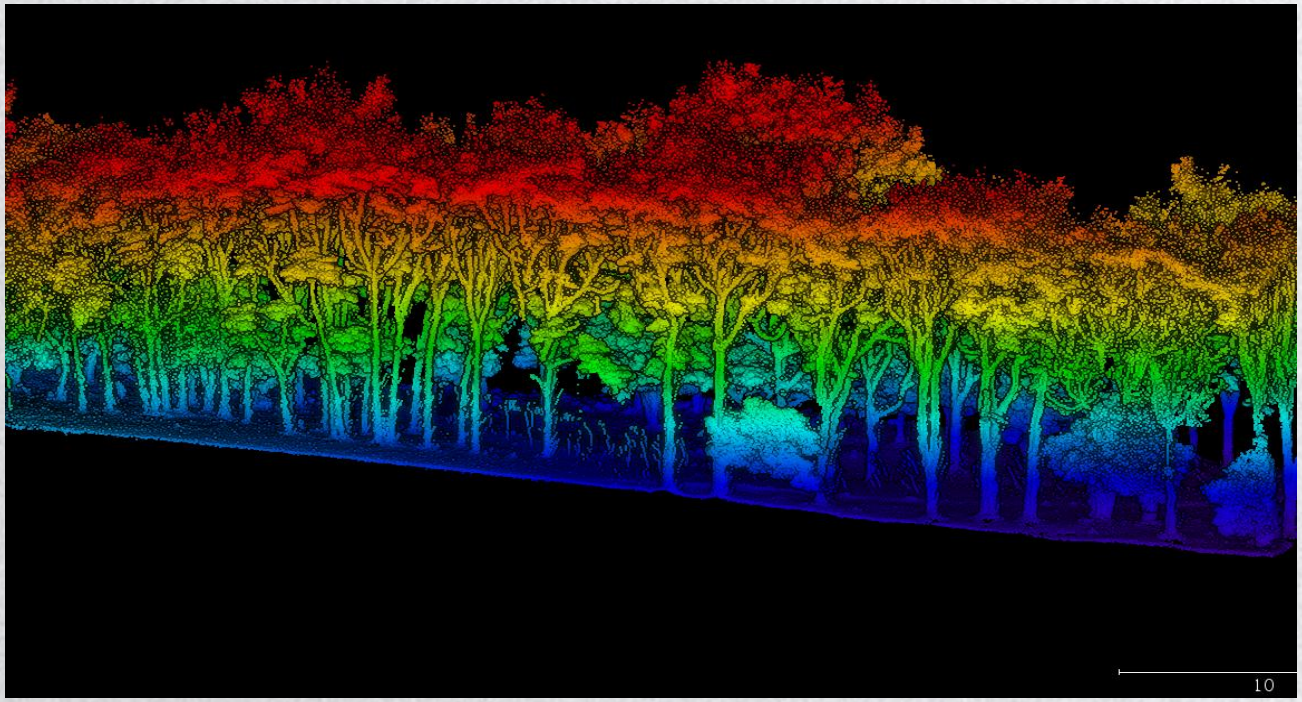
Handheld SLAM in Power Substation and Mining Application

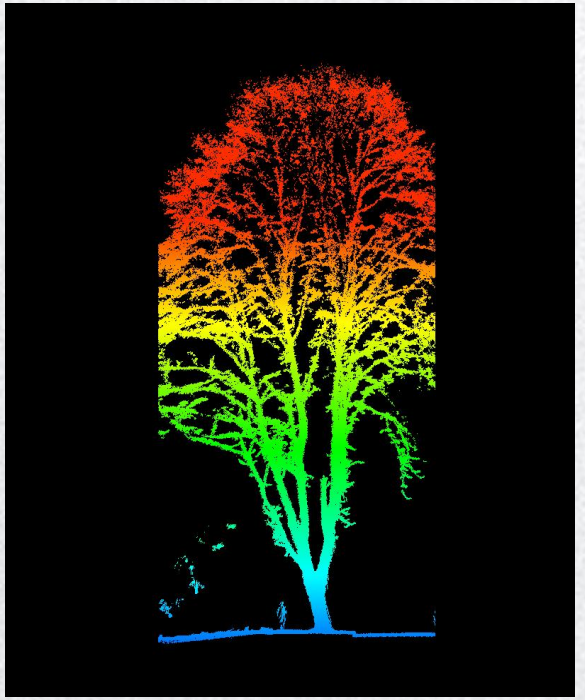
Model

GS-120G Handheld SLAM

The Reference







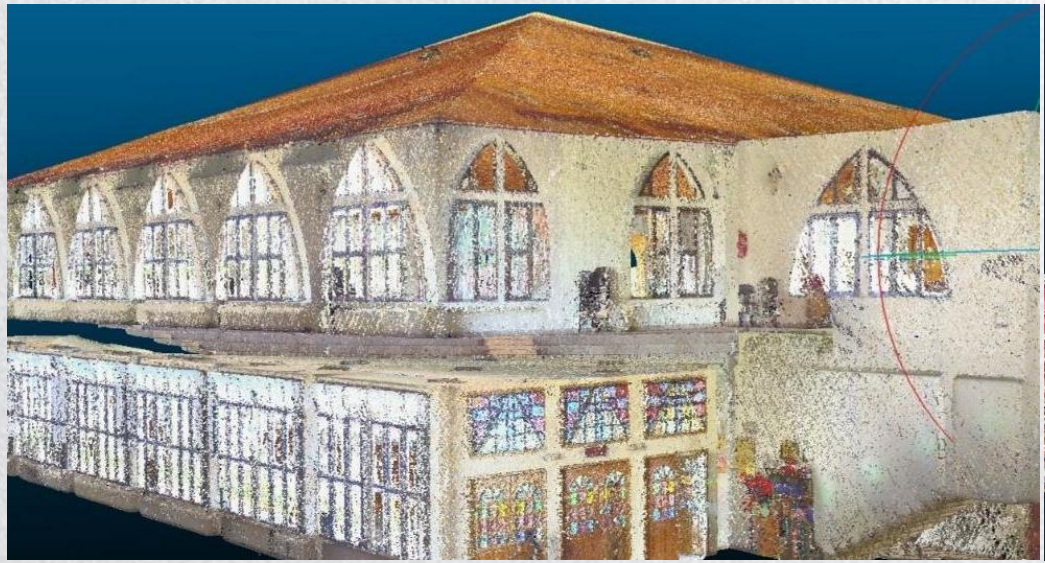
Project

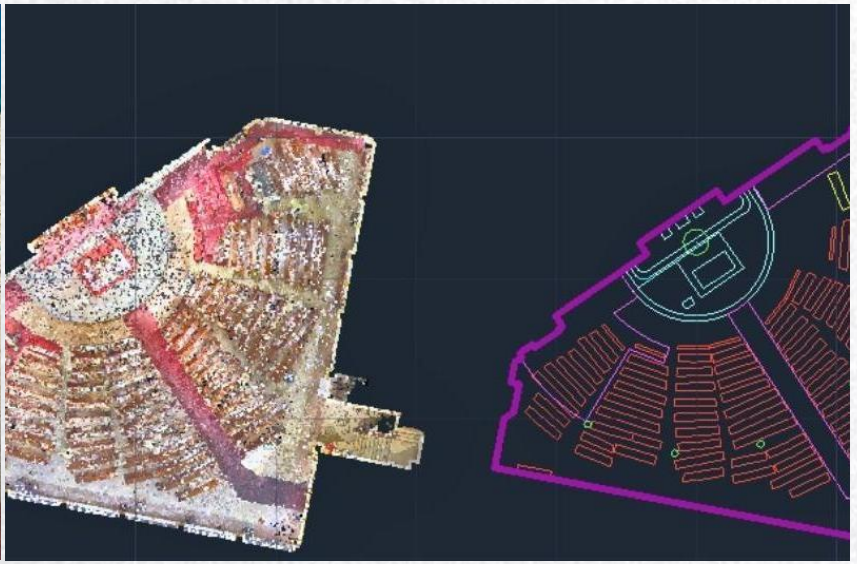
Handheld SLAM in Forestry Application

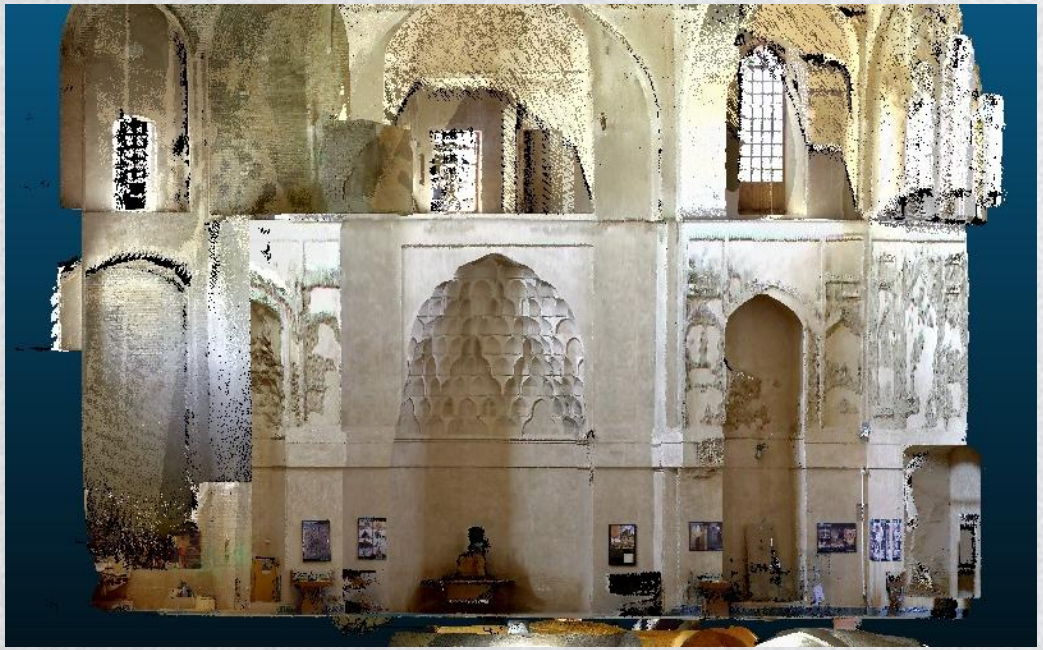
Model

GS-120G Handheld SLAM

The Reference









Project

Handheld SLAM in Engineering Application (Church in Malaysia)

Model

GS-100G Handheld SLAM

The Reference



Model

GS-200G Handheld SLAM (OSGB/3D Gaussian Splatting Modeling)

Trusted by Clients all over the World

Geosun

























Contents

1. Company Introduction

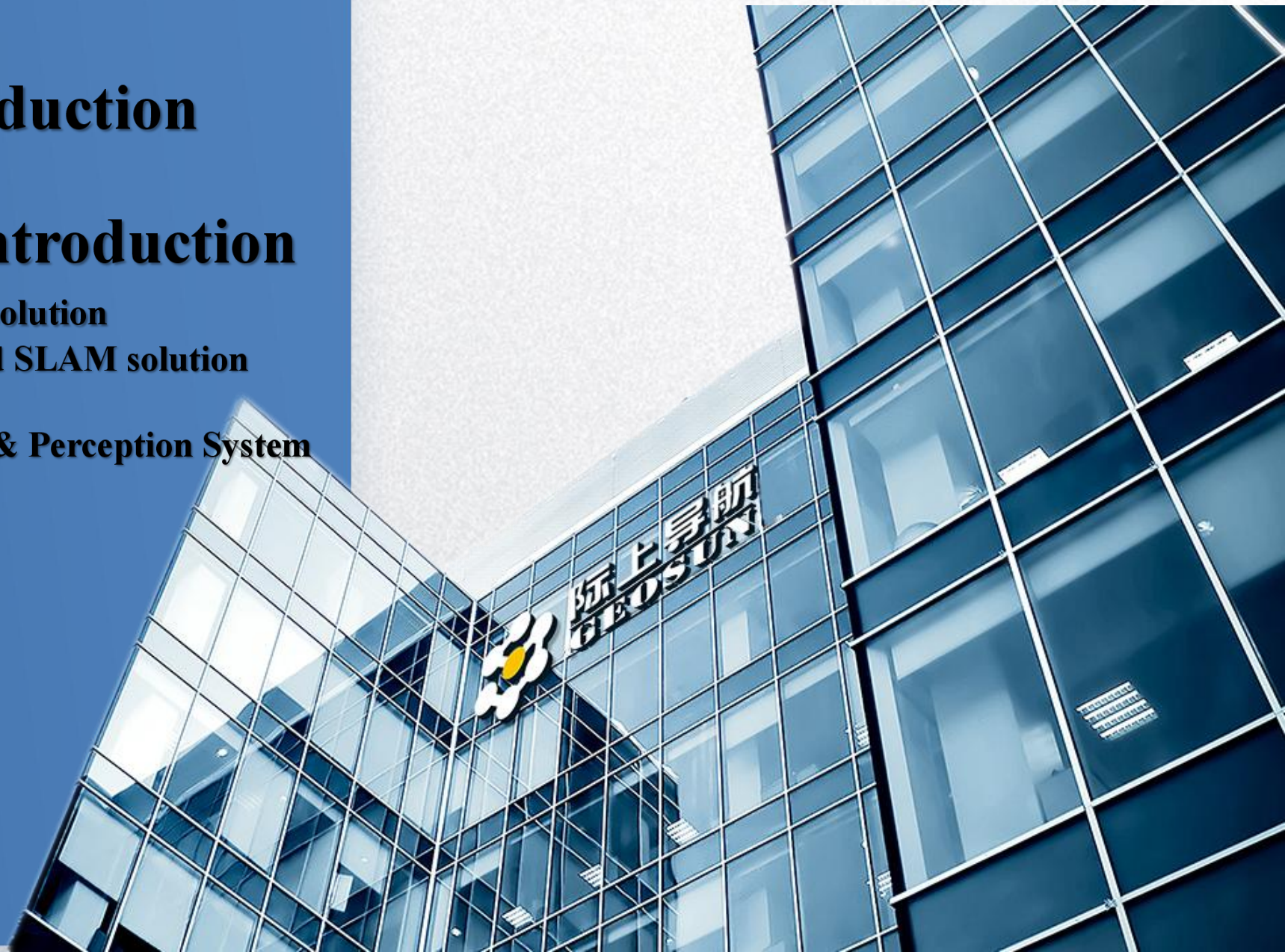
2. The Products Introduction

- 2.1 gAirhawk Series LiDAR solution
- 2.2 gFireEye Series Handheld SLAM solution
- 2.3 gCollector solution
- 2.4 Autonomous Positioning & Perception System
- 2.5 Software

3. Application

4. Sales Markets

5. Partners



Market Distribution:
7 Continents
90 + Countries



We have agents and clients across North America, South America, Europe, and Asia. Our products have been widely applied in large-scale infrastructure projects and have received excellent feedback, earning a strong reputation and significant influence. We are committed to building a world-renowned brand.

Sales Market

Export More than 70 Countries



Contents

1. Company Introduction

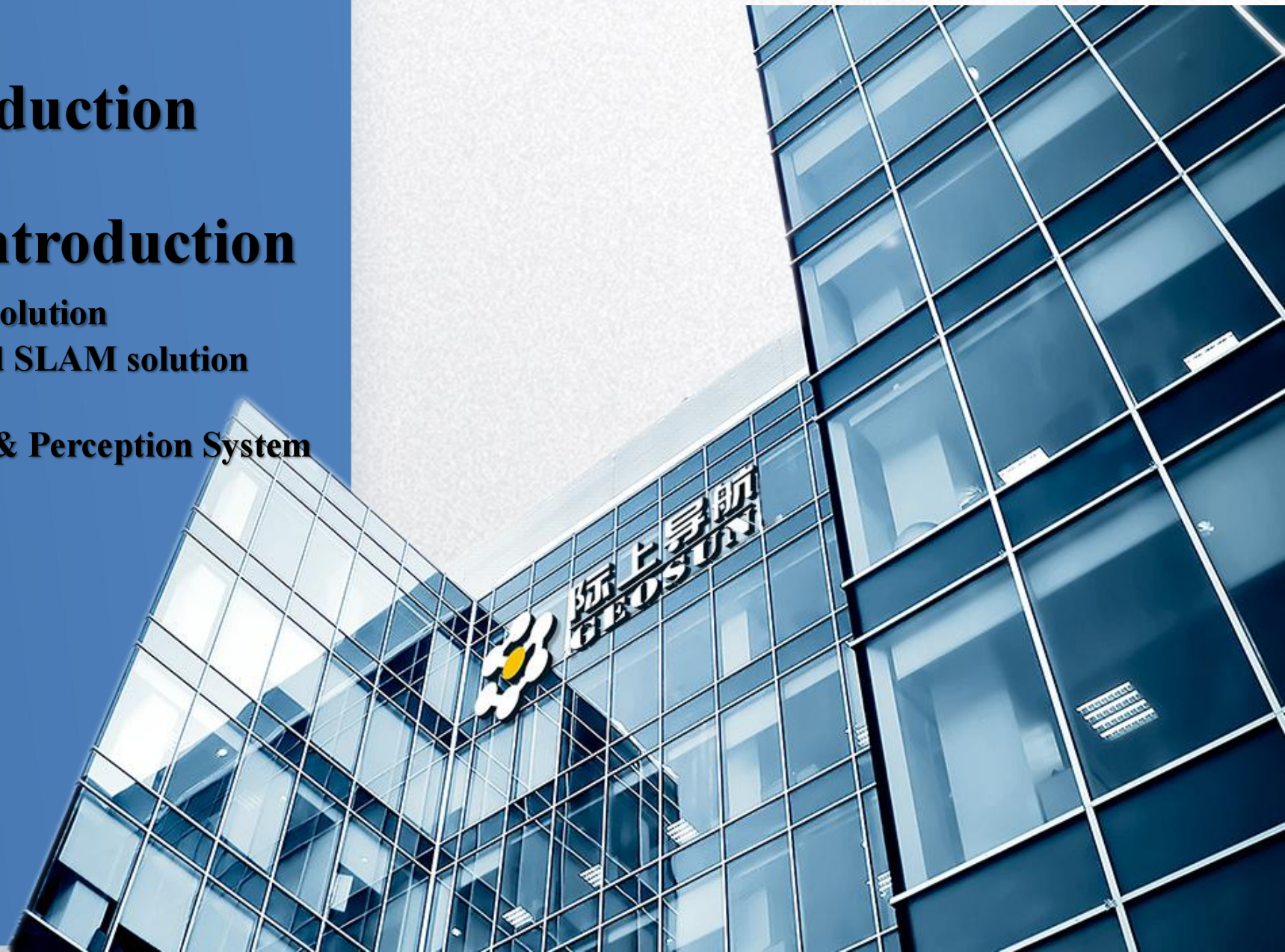
2. The Products Introduction

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Partners

Geosun

武漢大學

The Ohio State University 1870

UNSW AUSTRALIA

University of Nottingham
UK | CHINA | MALAYSIA

GDU

DJI

HelixNorth by EOSOL

JOUAV



caret
технологии точности

HESAI

unicore
a BDStar company

LIVOX

Geosun

2026

Our Mission
Make the LiDAR and SLAM
solution more
affordable and applicable

Thanks