

GNSS.AE

Drones | GNSS | LiDAR | Sensors | Software | Trainings

Solutions Portfolio





GNSS.AE



Our Company

Welcome to GNSS.AE, the forefront of GNSS and Drone Solutions in the Middle East and Africa. Headquartered in the UAE, we are recognized as the leading Technology Company in the region, dedicated to empowering enterprises and organizations with customized, state-of-the-art technology solutions.

Our offerings encompass:

- GNSS RTK Systems
- Enterprise Drones
- Cameras, LiDAR, Sensors
- Handheld Scanners
- Software Solutions
- Training and Support

Aerial Drone Solutions At A Glance

Enterprise Drones

Drones for surveying, mapping, inspections, filming, and various commercial applications.



Integrated Systems

Sensors like GPR, Magnetometers, and Echosounders for airborne geophysics, hydrography, and environmental monitoring.



Drone Payload Cameras

Payload cameras include sensors like LiDAR, RGB mapping camera, Starlight night vision, IMU solution for 3D data collection.



Software

Different PC software for capturing, processing, analyzing, modeling, operations management, and team management.



Specialized Payload Sensors

Payloads Cameras and Sensors for Oblique 3D Photogrammetry, Multi Gas Detection, Airdrop Release, Searchlights, Speakers,



Training & Certifications

Training and Certification on Plan, Collect and Process using Enterprise Drones for Hobbyist, Commercial, Advanced Industry level trainings.



Ground / Handheld Solutions At A Glance

Handheld 3D SLAM Scanners

Flagship handheld 3D scanner providing Next-Gen 3D Content Technology Based on Multi-SLAM & 3DGS



Lixel L2
Real-time
3D Scanner



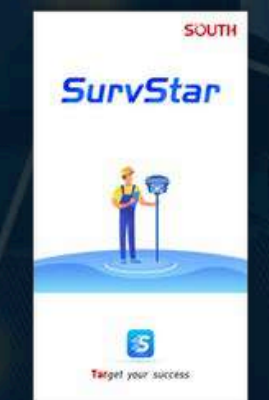
CHCNAV RS10
Integrated Handheld
SLAM 3D Scanner +
GNSS RTK



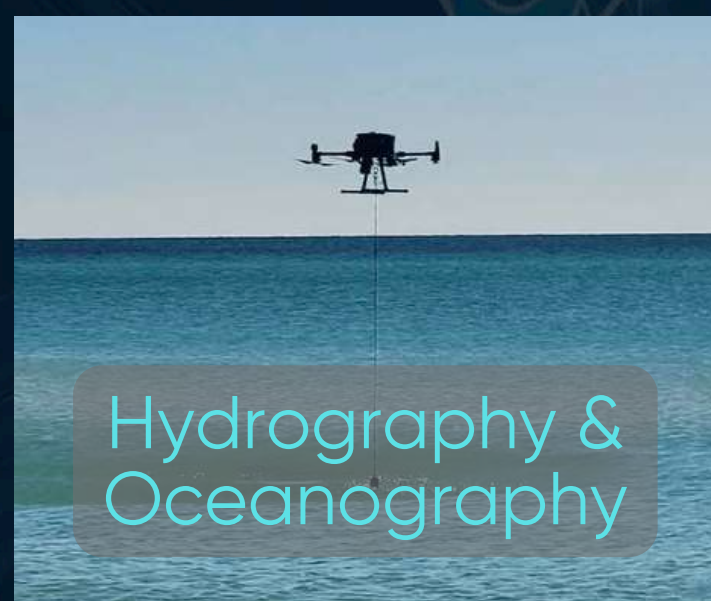
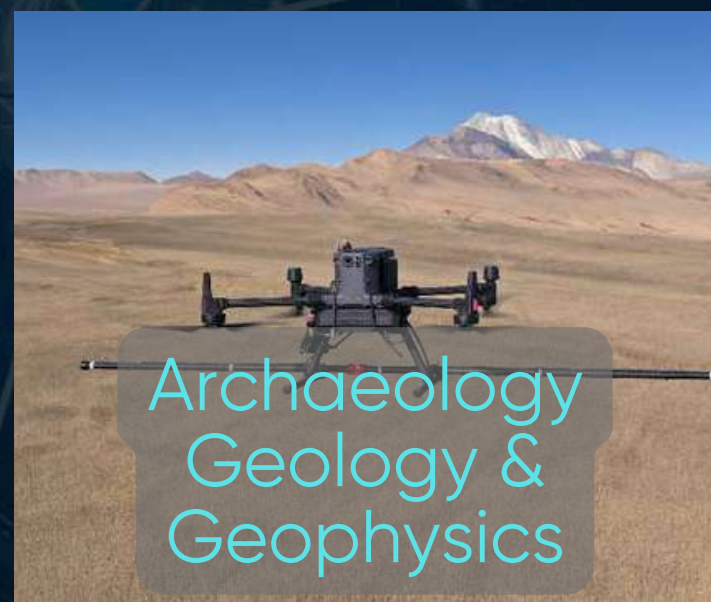
South RobotSLAM
Handheld 3D Laser
Scanner

High End GNSS RTK Systems

High end GNSS RTK Systems with photogrammetry capability, efficient, user friendly, versatile, safer for urban surveying



Applications/ Industries At A Glance



Aerial Drone Solutions



Aerial Drone Solutions

DJI Enterprise Drones

DJI Matrice M400



Boasts 59-minute flight time, a payload capacity of up to 6 kg, rotating LiDAR and mmWave radar for power-line-level obstacle sensing. O4 Enterprise Enhanced Video Transmission and Airborne Relay Video Transmission ensure safer handling and easier operations. Combining Smart Detection with visible and thermal imaging, AR projection, ship-based takeoff/landing, and advanced automation. Excels in emergency response, power inspections, mapping, and AEC.

DJI Matrice M350 RTK



Engineered for precision and reliability. Equipped with Real-Time Kinematics (RTK) technology, it ensures centimeter-level accuracy in every mission. With its robust design and advanced flight capabilities, the M350 RTK empowers professionals in industries like surveying, mapping, and inspection to achieve unparalleled results.

Aerial Drone Solutions

DJI Enterprise Drones

DJI Matrice 30 T

Equipped with a variety of high-performance sensors, lightweight and portable, and resistant to the effects of weather. The DJI RC PLUS enterprise remote control, as well as the newly enhanced DJI Pilot 2 flight app, are included to improve piloting efficiency and flight safety. The Matrice 30 Series (M30 or M30T) comes with a DJI RC Plus, two TB30 Intelligent Flight Batteries, one BS30 Intelligent Battery Station, and the aircraft storage case.



DJI Mavic 3 Enterprise

With a mechanical shutter, a 56x zoom camera, and an RTK module for centimeter-level precision, the Mavic 3E brings mapping and mission efficiency to new heights.



DJI Matrice 4E

The series includes Matrice 4T and Matrice 4E, each equipped with advanced features such as smart detection and measurement with laser range finder. Flight operations are now safer and more reliable with significantly enhanced sensing capabilities. The accessories for the Matrice 4 series have also been significantly upgraded. The Matrice 4E is designed for geospatial applications such as surveying and mapping, construction, and mining.



Aerial Drone Solutions

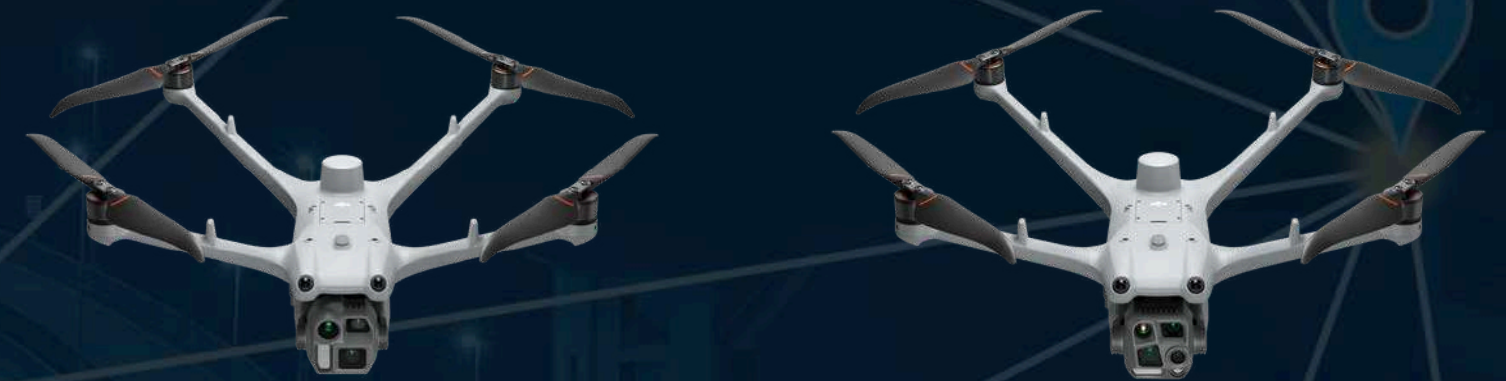
DJI Enterprise Drones

DJI Dock 3



DJI's first "Drone in a Box" solution that supports vehicle mounting, enabling 24/7 remote operations in various environments. Meeting the needs of public safety, emergency response, and infrastructure inspection, Dock 3 is equipped with the latest DJI Matrice 4D or DJI Matrice 4TD drone that offers improved flight performance and protection.

DJI Matrice 4D/4TD for Dock 3



Engineered for round-the-clock autonomous operations, these models extend the capabilities of the Matrice 4 Series, delivering superior flight performance, resilience, and imaging technology.

Aerial Drone Solutions

DJI Payload Cameras

Upgrade your capabilities with DJI Enterprise Camera and Payload Sensors from GNSS.ae. Ideal for photogrammetry surveys, LiDAR mapping, visual and thermal inspections, and night vision applications, our advanced sensors ensure precise data collection. Enhance surveillance, environmental monitoring, and ground penetration with cutting-edge technology. Explore aerial oblique survey cameras, night vision sensors, echosounders, and gas detection systems.

DJI Zenmuse P1 Photogrammetry camera



DJI Zenmuse P1 integrates a full-frame sensor with interchangeable fixed-focus lenses on a 3-axis stabilized gimbal. Designed for photogrammetry flight missions, it takes efficiency and accuracy to a whole new level.

DJI Zenmuse H30

The all-weather, multi-sensor flagship Zenmuse H30 Series integrates five major modules—a wide-angle camera, a zoom camera, an infrared thermal camera, a laser range finder, and an NIR auxiliary light.

Employing cutting-edge intelligent algorithms, it revolutionizes perception and imaging standards, transcending the limitations of day and night vision. This makes it effortlessly suitable for a variety of operations, including public safety, energy inspection, water conservation, and forestry.



DJI Zenmuse H30T

A flagship multi-sensor payload for the DJI M400, DJI M350 RTK and DJI M300 RTK, suitable for multiple applications. H30T boasts a thermal resolution of 1280 x 1024 for enhanced clarity. Temperature measurement range from -20° to 1600° C.



DJI Zenmuse L2 LiDAR Camera



DJI Zenmuse L2 integrates frame LiDAR, a self-developed high-accuracy IMU system, and a 4/3 CMOS RGB mapping camera, providing DJI flight platforms with more precise, efficient, and reliable geospatial data acquisition. When used with DJI Terra, it delivers a turnkey solution for 3D data collection and high-accuracy post-processing.

Aerial Drone Solutions Specialized Payloads

With the ability to seamlessly integrate a wide array of cameras, sensors, and software from trusted third-party providers, DJI Enterprise drones become even more versatile and powerful tools for a variety of industries. From specialized sensors for agriculture and environmental monitoring to advanced imaging systems for infrastructure inspection and public safety applications, there's a solution to fit every need.

Unlock new possibilities and tailor your drone setup to your specific requirements, all while leveraging the reliability and performance of DJI platforms. Experience the future of aerial technology with third-party payloads and software compatible with DJI Enterprise solutions, revolutionizing the way you approach your most critical missions.

- Oblique Survey Cameras
- Multi Gas Detection Sensors
- Hyperspectral Cameras
- Multispectral Camera
- Loudspeakers
- Spotlights
- Laser night vision lights
- Drop Release hooks Winch
- Drone Payload Air Drop Release
- Drone parachutes
- Water sampling collector
- and much more....



Aerial Drone Solutions

Integrated Systems

Integrated sensors play a pivotal role across various industries, providing crucial insights and solutions to complex challenges.

Integrated sensors offer invaluable capabilities in each of these industries, empowering professionals to conduct precise assessments, enhance safety, and optimize operations with unprecedented efficiency.

Subsurface Search

- Underground utilities search & localization: Utilizing Ground Penetrating Radar (GPR) and magnetometer.
- Cavities, voids, tunnels: Leveraging GPR technology.
- Archaeology: Employing GPR and magnetometer.
- UXO search: Utilizing magnetometer.

Mining

- Exploration geophysics: Leveraging magnetometers and GPR.
- Tramp metal detection: Utilizing magnetometers.
- TSF monitoring: Combining echo sounders and GPR for Tailings Storage Facility monitoring.

Hydrography

- Conducting bathymetry of waterways, lagoons, lakes, ponds, and harbors.
- Dredging monitoring.
- Assisting in construction planning.

Environmental Monitoring

- Methane leaks detection: Utilizing methane detectors.
- Abandoned wells detection: Using magnetometers.
- Sediments monitoring: Utilizing echo sounders.
- Snow/ice studies: Employing GPR.
- Water quality monitoring: Utilizing water samplers.
- Landslides prevention: Utilizing GPR.



GPR



Echo Sounder



Magnetometer



Metal Detector



Methane (CH4) Detector



Altimeter



Marine Magnetometers

MagElement Marine Magnetometer



The MagElement is the latest addition to the long list of products trusted by professionals worldwide. Now compatible with autonomous platforms, this new magnetometer utilizes the lightweight, low-power MFAM sensor already proven in the Geometrics MagArrow. It combines the features our customers use the most, as well as new capabilities to more easily interface and integrate with autonomous platforms. The MagElement is ideal for any marine magnetic survey, including the UXO investigations, that have proven why our marine magnetometers are so respected in the industry. This very high-resolution Cesium vapor marine magnetometer is low in cost, small in size, and offers flexibility for professional surveys in shallow or deep water.

G-882 Marine Magnetometer



The G-882 is the only system that meets the standards required for UXO clearance in the North Sea. This very high-resolution Cesium vapor marine magnetometer is low in cost, small in size, and offers flexibility for professional surveys in shallow or deep water. Use your personal computer with our MagLog™ software to log, display and print GPS position and magnetic field data. The system directly interfaces to all major side-scan manufacturers for tandem tow configurations. Being small and lightweight, it is easily deployed and operated by one person. Add several streamlined weight collars and the system can quickly weigh more than 100 lb. for deep-tow applications.

Cleaning Drones

JOYANCE JTC10



A powerful industrial drone designed for cleaning high-rise windows and building exteriors. Featuring a 4100 PSI high-pressure water gun and a retractable spray boom (1–1.8m), it delivers precise and efficient cleaning up to 60 meters high. With a built-in FPV camera and real-time app display, operators can monitor cleaning and flight status with ease.

JOYANCE JTC20



JTC20 Cleaning drone also can spray foam and the take-off weight is 24kgs, Specially suitable for countries with a take-off weight of less than 25kgs. JTC20 model MAX flying height is 100 meters, it is the most economical cleaning drone model, 1 battery can fly 20 minutes, so 3 batteries and 1 charger can work all day.

JOYANCE JTC30



A heavy-duty industrial drone designed for high-altitude and hard-to-reach surface cleaning. With a powerful 4100 PSI water system, a 15L/min spray flow, and a replaceable 1.5-meter spray boom, it delivers exceptional performance on glass facades, narrow structures, and even high-voltage insulators. Its robust design allows for stable operation at heights up to 150 meters, while an FPV camera with night light provides real-time visuals through the connected app for safe and accurate control.

MicaSense sensors

Setting entirely new standards of excellence for multispectral imaging solutions, these innovative sensors are the cameras of choice worldwide for advanced applications in agriculture, plant research, land management and forestry management.

Altum-PT



Synchronized thermal, multispectral, and RGB imagery at high resolution.

Sensor:

- 5 Multispectral bands + Panchromatic + Thermal
- GSD down to 1.2 cm (0.47 in) per pixel at 60 m (200 ft) AGL

RedEdge-P



High-resolution RGB and multispectral sensor.

Sensor:

- 5 Multispectral bands + Panchromatic
- GSD down to 2 cm (0.8 in) per pixel at 60 m (200 ft) AGL

RedEdge-P dual



High-resolution multispectral and RGB composite drone sensor with a Coastal blue band.

Sensor:

- 10 Multispectral bands + Panchromatic
- GSD down to 2 cm (0.8in) per pixel at 60 m (200 ft) AGL

Smart Inspection & Diagnostic Solutions

DayCor® Luminar HD



Solar Blind UV Camera is a handheld solution specifically designed to detect and pinpoint corona PD and arcing – a major but often unseen hazard to electrical equipment. It offers unparalleled sensitivity, precise fault pinpointing, HD imaging, and powerful zoom. With its functions and advanced algorithms, it excels in a wide range of applications and delivers top-notch performance.

OFIL DayCor® micROM HD



Solar Blind UV Camera is a UAV solution specifically designed to detect and pinpoint corona PD and arcing – a major but often unseen hazard to electrical equipment. It's compact, lightweight, features a wide field of view and high-definition imaging. With its electromagnetic shielding, it ensures optimal performance even in the most demanding conditions. Its easy integration on UAVs, combined with the ability to integrate with various gimbals enhances its practicality and versatility.

DayCor® UV EYEs Family

Solar Blind UV Camera cores for OEM integration, specifically designed to detect and pinpoint corona partial discharge



DayCor®
UV Eye



DayCor®
UV Eyelite



DayCor®
UV EyeScope

Magnetometer & Survey Solutions



MagDrone R1

Ultra portable survey kit with an extendable Fluxgate sensor to be attachable to any UAV / drone with a 1+kg payload only. The kit features a self-folding carbon fiber sensor arm to keep the distance to the ground as low as possible without risking the equipment. The built-in 3-axis Fluxgate can output serial live data with up to 1,000 Hz. The MagDrone R1 is optimized for small and mid size survey UAVs equipped with UgCS Skyhub or similar.



MagDrone R3

Ultra portable magnetometer survey kit to be attached to any UAV / drone with a minimum payload of 1kg. The kit consists of an ultra light weight sensor tube with two built-in 3-axis Fluxgates with 150pT resolution, a 1-button data logger with internal SD card, rechargeable batteries and an integrated GPS. It is made and optimized for small and mid size survey UAVs / drones that are shaped for less payload and longer flight times.



MagDrone R4

Ultra-portable magnetometer survey kit with five 3-axis sensors that can be attached to any drone (UAV) with a payload of >1500g. In opposite to the R3, the MagDroneR4 is used for high resolution mapping in order to detect small and compact objects as well as structures in the ground, such as bombs, ammunition or settlement features from the past. A sensor distance of 50 cm at a track distance of 2.5 m allows an area output of 3 to 4 ha per hour. Operating the MagDroneR4 is as simple as with the R3

UAV-based Environmental Data Acquisition Solutions

Support DJI Matrice 350 RTK



Sniffer 4D Mini2 Multi-gas Sensing + Wind Sensing + External Temperature & Humidity Sensing



Sniffer 4D Mini2 Multi-gas Sensing + Sniffer4D MP-TDLAS Methane Sensing + Sniffer4D 1ppm NDIR CO2 Sensing



Sniffer4D MP-TDLAS Methane Sensing + Sniffer4D 1ppm NDIR CO2 Sensing + Gas Sampling



Sniffer4D 1ppm NDIR CO2 Sensing + Sniffer4D MP-TDLAS Methane Sensing



Speedip Smart Liquid Sampling + 1L PMMA/Stainless Steel Container

Support DJI Matrice 30/30T

Sniffer 4D Mini2 Multi-gas Sensing



Sniffer4D Mini2 MP-TDLAS Methane Sensing



Support DJI Mavic 3E/3T

Sniffer 4D Mini2 Multi-gas Sensing



Sniffer4D Mini2 MP-TDLAS Methane Sensing



Support DJI Matrice 3D/3TD & Dock 2

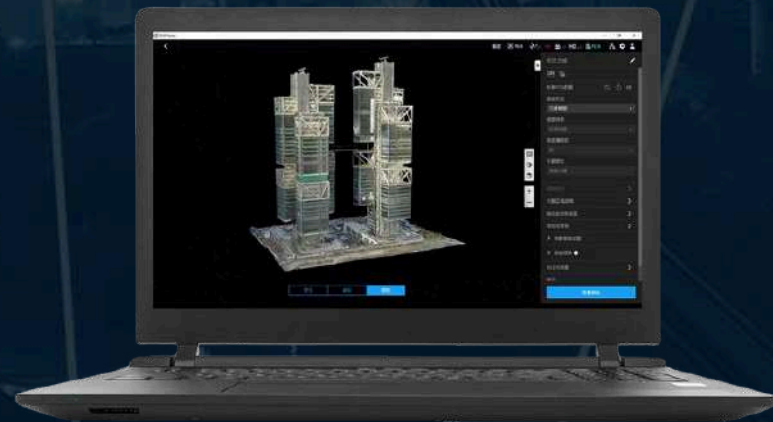


Sniffer 4D Nano2 Multi-gas/MP-TDLAS Methane Sensing

Aerial Drone Solutions Software

Elevate your drone data processing with GNSS.ae's PC software. Our advanced solutions offer comprehensive tools for 2D and 3D mapping, drone surveying, LiDAR data processing, orthomosaic creation, and point cloud generation. Designed for precision and efficiency, our software ensures accurate 3D models and seamless workflow integration. Enhance your surveying and mapping projects with GNSS.ae's innovative tools.

DJI Terra



3D model reconstruction software that has photogrammetry as its core technology. It supports a range of accurate and efficient 2D and 3D reconstruction of visible light, and data processing through DJI LiDAR.

DJI Terra is a perfect match for DJI Enterprise drones and payloads. It works in conjunction to build a complete application solution that caters to verticals such as land surveying and mapping, power transmission, emergency services, construction, transportation, and agriculture.

DJI Modify



DJI Modify is DJI's first intelligent 3D model editing software. It features a streamlined and intuitive interface that makes it simple to complete model editing efficiently. Paired with a DJI Enterprise drone and DJI Terra, it forms a comprehensive solution from aerial surveying, modeling, and model editing to sharing these models easily to meet operational needs in surveying and mapping, firefighting, emergency response, and transportation.

DJI FlightHub 2



FlightHub 2 is an all-in-one cloud-based drone operations management platform that helps you achieve comprehensive, real-time situational awareness. Access all the information you need to plan drone missions, supervise your fleet, and manage the data you create, now from a secure cloud-based environment.

Virtual Surveyor



Smart drone surveying software. Survey efficiently with drone data. Powerful analysis and visualisation of your drone surveys. Virtual Surveyor is ideal for civil construction, infrastructure, mining and quarrying projects of any size. From road surveying to topography mapping, volume calculations and cut/fill mapping, Virtual Surveyor gives you the tools to quickly and accurately track and optimise your project as it takes shape.

Aerial Drone Solutions Software



PIX4Dsurvey

PIX4Dsurvey cuts out the steps between photogrammetry and CAD, allowing you to extract only the most critical vector data information from point clouds of any size. Offering TIN and breakline analysis, PIX4Dsurvey is ready to integrate your projects into any CAD or GIS software with the customizations that suit your work. Merge multiple point clouds in one project, using both Lidar and photogrammetry data.



Pix4Dmatic

PIX4Dmatic

PIX4Dsurvey cuts out the steps between photogrammetry and CAD, allowing you to extract only the most critical vector data information from point clouds of any size. Offering TIN and breakline analysis, PIX4Dsurvey is ready to integrate your projects into any CAD or GIS software with the customizations that suit your work. Merge multiple point clouds in one project, using both Lidar and photogrammetry data.



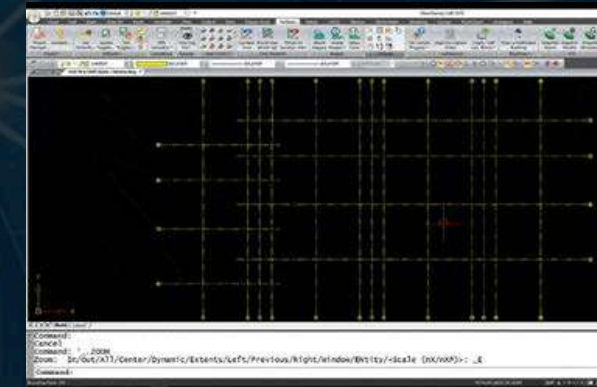
Pix4DMapper

Pix4Dmapper turns your images into highly precise, georeferenced 2D maps and 3D models. They're customizable, timely, and complement a wide range of applications and software.



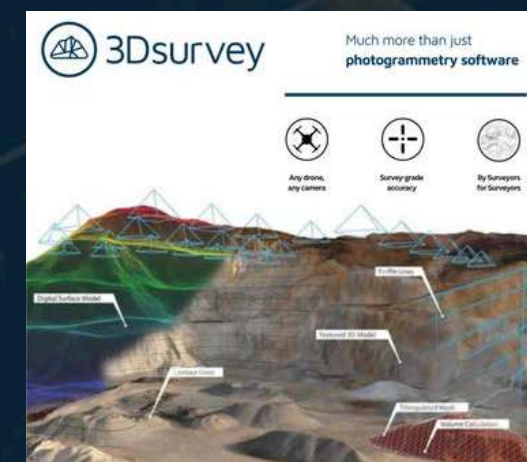
MicroSurvey embeddedCAD

Desktop Survey and Design Program Created for Surveyors, Contractors and Engineers that is Powered by Autodesk Technology™. Provides users with unencumbered survey drafting and calculation workflows in a familiar AutoCAD working environment, including COGO, point tools for gridline-based projects, traverse input and adjustment, misclosure reporting, common data collector support, 3D surface representation and computation, corridor design, and more.



MicroSurvey inCAD

MicroSurvey inCAD is a subscription-based plugin. Designed to apply efficient survey tools, calculations, and workflows to your existing Autodesk product subscriptions.



3Dsurvey Software

Our all-in-one photogrammetry tool gives you everything you need to know about a site, whether it's a brownfield site, a new building, a quarry, a mine or a natural disaster. It gives you this information in digital maps, 3D models and interactive measurements that you can easily explore.

Aerial Drone Solutions Software



TerraScan

TerraScan is the main application in the Terrasolid Software family for managing and processing all types of point clouds. It offers import and project structuring tools for handling the massive number of points of a laser scanning campaign as well as the corresponding trajectory information. Various classification routines enable the automatic filtering of the point cloud.



Lidar360

Professional processing platform for massive point cloud data developed by GreenValley International. The platform employs over ten different types of international leading point cloud algorithms, artificial intelligence, and machine learning to promote the use of LiDAR across the industry and solve application problems while unlocking the full potential of point cloud data. The software can analyze and process massive point cloud data, adapts to multiple platforms and devices, and provides more than 700 functions for efficient support of multi-industry applications.



Reality Capture

Photogrammetry software application for Windows, which enables you to create ultra-realistic 3D models from set of images and/or laser scans.



REDtoolbox

The software performs a multi-constellation (GPS, GLONASS, Beidou, Galileo) and multichannel (L1, L2, L5) GNSS postprocessing PPK of Base-Rover configurations. Such configurations can be found in many UAV / drone applications and terrestrial 3D ImageVector device. The corrected GNSS path accuracy is at centimeter level, depending on the device use, the current satellite constellation and receipt quality.

Agisoft Metashape professional version



A stand-alone software product that performs photogrammetric processing of digital images and generates 3D spatial data to be used in GIS applications, cultural heritage documentation, and visual effects production as well as for indirect measurements of objects of various scales. Wisely implemented digital photogrammetry technique enforced with computer vision methods results in smart automated processing system that, on the one hand, can be managed by a new-comer in the field of photogrammetry, yet, on the other hand, has a lot to offer to a specialist who can adjust the workflow to numerous specific tasks and different types of data. Throughout various case studies Metashape proves to produce quality and accurate results.

Aerial Drone Solutions Trainings & Certifications



Explore our comprehensive commercial drone training and certification services tailored to professionals across various industries. Our programs ensure compliance with regulations, mitigate risks, and unlock the full potential of drone technology across industries. Upon completion, attendees receive a Training Completion Certificate, validating their expertise and competence in drone operations.

Here's an overview of our training and certification offerings:

DJI M350/M400 Commercial Drone Flight Specialist

Aimed at providing the attendees the highest standards of knowledge in use of Commercial Drones for different use cases like Surveying, Mapping, Inspections, Surveillance and Scouting missions.

Drone Aerial Photogrammetric Survey Specialist

Aimed to providing you with the advanced level knowledge and competency needed to carry out the professional drone based surveying and mapping with a combination of classroom and hands on experience with the surveying drone, payloads, software.

Drone Aerial Lidar Mapping Specialist

Aimed to providing you with the advanced level knowledge and competency needed to carry out the professional drone based surveying and mapping with a combination of classroom and hands on experience with the surveying drone, payloads, software.

Drone Data Process and Modeling Specialist

Aimed to providing you with the advanced level knowledge and competency needed to carry out the data processing, reconstruction and modeling of drone data captured for surveying, mapping and inspection missions.

Ground / Handheld Survey Solutions



Ground Survey Solutions

GNSS RTK Systems



Inno 8 GNSS (Photogrammetry)

Dual-cam Flagship Masterpiece

- Visual positioning and AR stake-out on board
- Ready for online/off-line/post process and 3D modeling
- 1598/1698/1760 channels available, with upward antenna design
- Ultra-large HD touch screen 1.39-inch, color LCD
- 3W internal UHF, Farlink 2.0 radio datalink technology
- 10000 mAh internal battery and 64 GB internal memory



Inno 7 GNSS

Multi-functional Large Screen Receiver

- 336/1598 channels available, with upward antenna design
- RTX XTRa technology to deliver cm-accurate positioning by SSR
- Ultra-large HD touch screen 1.54-inch, color LCD
- 3W internal UHF, Farlink 2.0 radio datalink technology
- 2 nos. 3400 mAh hot-swappable battery and 64 GB internal memory



Ground Survey Solutions

GNSS RTK Systems



Galaxy G9 GNSS

A Smart Wireless Model

- 1598/1760 channels available
- 2W internal UHF, Farlink 2.0 radio datalink technology
- One button for all operations, power indication without switching on even
- Fixed solutions kept at centimeter level for minutes while corrections are missing
- 2 nos. 3400 mAh hot-swappable battery, working time up to 15 hours max.



South Galaxy G3

- Most components are integrated on one circuit board
- Lower power consumption, efficiently improves the ability of receiving higher quality satellites signals.
- Powered by the new SoC GNSS board, new generation sensitivity satellite antenna, new ROS platform and GNSS RTK engine, G3 can fully track GPS, GLONASS, BDS, GALILEO and QZSS to obtain centimeter-level positioning in few seconds.



Galaxy G5 GNSS

Designed for Powerful Base

- 1760 channels for full constellation tracking
- 3W internal UHF, Farlink 2.0 radio datalink technology
- Upward antenna but indented design, IP 68 rating
- Ultra-large HD touch screen 1.3-inch, color LCD
- 10000 mAh internal battery, internal memory extendable up to 64 GB



South Insight V2

- Seamlessly integrated with GNSS, IMU sensor and a camera
- Based on integrated technology of GNSS positioning, IMU compensation, imaging, and calculating the real-time receiver's altitude, Insight V2 provides live visual data that results in the stakeout target accurately displayed on the screen hence precise and distinct navigation to the targets;

Ground Survey Solutions

Data Collectors



H6 Rugged Data Collector

- Rugged Data Collector
- Android 11 OS, 64GB ROM, fast than ever
 - 5-inch touch screen with full keypad
 - Seamlessly integrated with Google framework
 - A durable and reliable fieldwork tool

N80 Rugged Tablet

- Industrial-level GNSS Tablet
- Tailor-made to Geodesy, GIS and other related industries
 - GNSS board, sensitive antenna, 5G telecom module on board
 - Android 12 OS, 128 GB ROM, multi-touch screen, QC 3.0, GMS
 - IP67 rating, a portable high-precision tablet PC



Ground Survey Solutions Field & Office Software

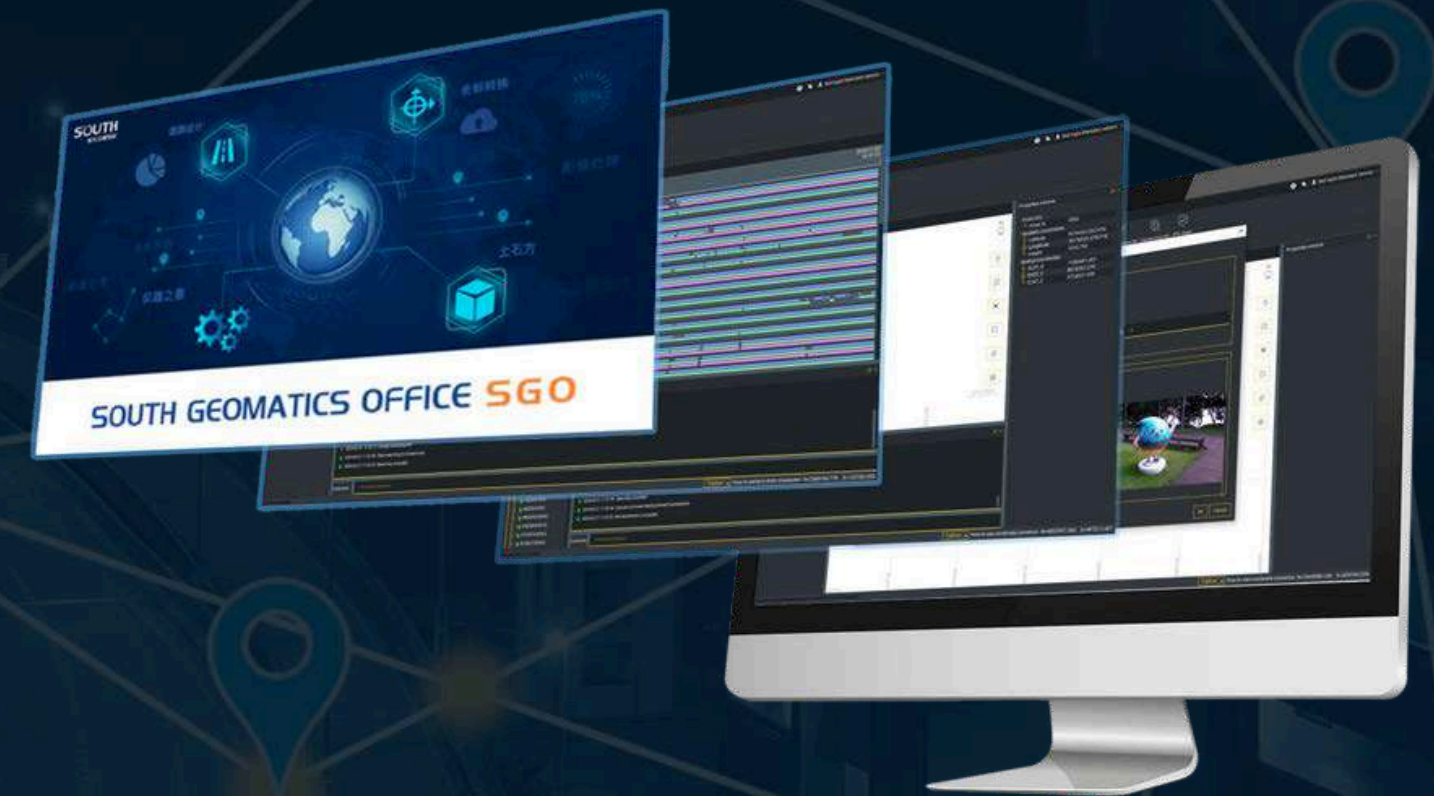
SurvStar Field Software



RTK Fieldwork Software

- CAD drawing on site, one-stop fieldwork solution, CAD layout directly with map drawings, no coordinate transformation needed
- Meas & Map, to perform mapping while measuring points, easy one-shot
- Photogrammetry on board, to measure inaccessible points out of reach via captured images or video streams. Image data could be further used for 3D modeling.
- AR stake-out available, by point/line/CAD. Target points could be easily reached with the visualized guide.
- GIS data acquisition, to work with high-precision tablet PC (eg. N80T)

SGO Geomatics Office



Geomatics Office Software

- Tailor-made to survey industry, a power station for geomatics data
- Ready to edit, process, and analyze data from GNSS receivers, total stations, and levels
- Supports CAD, cloud services, online maps, road design, GIS/image process, project analysis, earthwork calculation, data quality check, and debugging, etc.

Total Stations

South N7/N9 Series

Long-Range EDM

Up to 2000m reflectorless range with quick response in 0.3s. N7/N9 can easily handle the target in tough conditions, eg. roof, wires. also enables N7/N9 to achieve accurate (2+2ppm) measurement in 5.0km with prism.

Smaller Laser Spot

At the distance: 5m, 35m and 50m, N7/N9's laser spot has improved to an accurate size in 3mm, 12mm and 16mm. The smaller laser spot provides a precise guidance for target aiming.



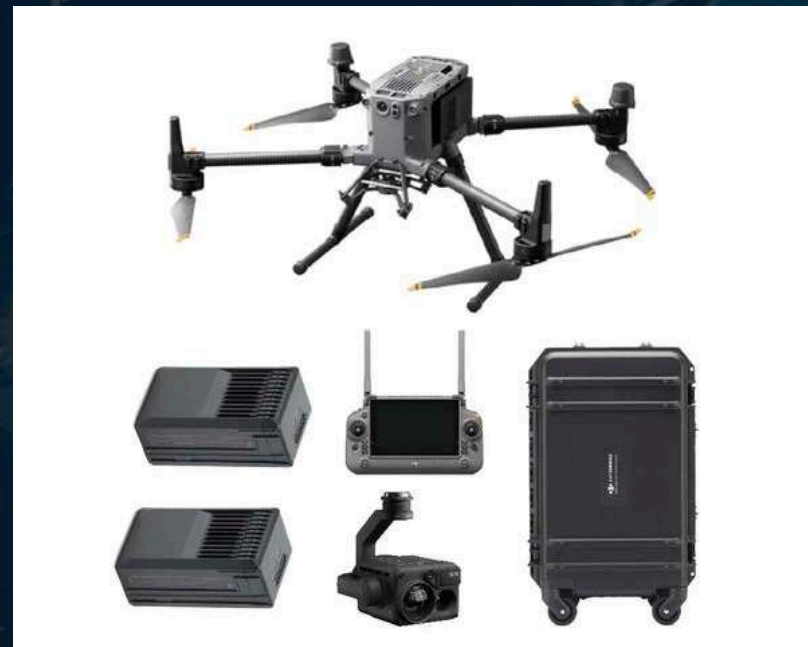
Easy-to-use Onboard System

N7 series total station with fully-open Windows CE 6.0 operate system, featured South EGStar, MGStar, with unique applications. N7/N9 afford a complete field-to-office solution to users, includes key features such as COGO Routines, Road Program, Coding, Resection, Stake-out, Reference Line, etc.

Advanced Applications

N7/N9 series total station with the fully open Windows CE 6.0 operate system, featuring South EGStar, MGStar, Field Genius, SurvCE or any other localized software. It can meet different kinds of request or demands with a highest capability, easier the measurement than normal.

Combo Packages



DJI Matrice 350 RTK Thermal Combo

The DJI Matrice 350 RTK with Zenmuse H20T. Capture everything up close or from a distance in true living colour or thermal. An integrated laser rangefinder (LRF) measures the distance to an object at up to 1200 m away.



DJI Mavic 3 Enterprise Survey Kit

- The Ultimate Mapping Package
- RTK Module, Battery Kit, D-RTK 2 Mobile Station & Tripod
- 4 Batteries in Total! 45 Mins Flight Time Each
- Map Up To 2km Per Battery
- Mechanical Shutter



DJI Matrice 350 RTK with DJI L2 Aerial LiDAR and Ground Surveying Bundle using South GNSS

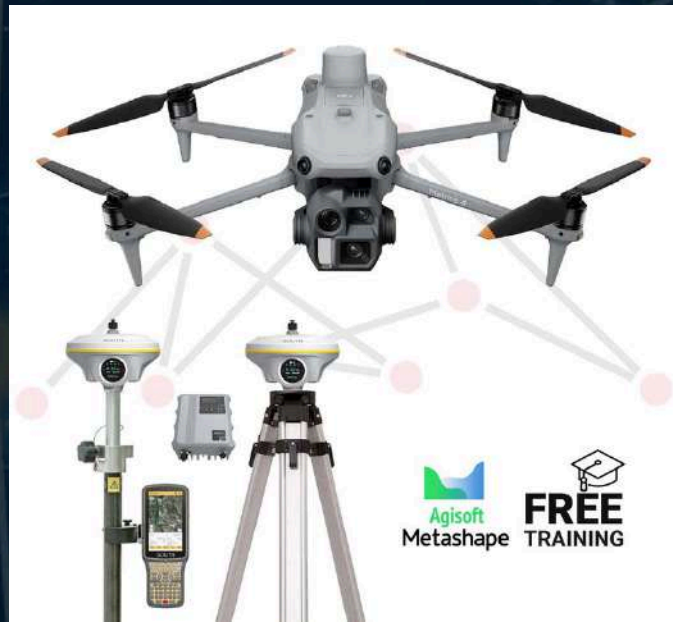
- Highly-accurate LiDAR
- 20MP RGB aerial surveying solution.
- Ideal for topographic mapping and building accurate 3D models.



DJI Matrice 350 RTK Photogrammetry Combo DJI Zenmuse P1, Agisoft Metashape, South GNSS Receiver Base Rover Set

- Accuracy without GCPs: 3cm horizontally/5cm vertically.
- High Efficiency 3 km² covered in a single flight.
- 45 MP Full-frame Sensor.
- Smart Oblique Capture
- Global Mechanical Shutter, Shutter Speed 1/2000 Seconds

Combo Packages



DJI Matrice 4E Aerial Photogrammetry and Ground Surveying Bundle using South GNSS

This all-in-one bundle combines the next-generation DJI Matrice 4E drone platform with a complete South GNSS base and rover set, providing a fully integrated solution for high-precision aerial photogrammetry and ground surveying tasks. Designed for professionals who demand accuracy, efficiency, and workflow continuity, this bundle also includes Agisoft Metashape for detailed post-processing, 3D reconstruction, and georeferenced outputs.



DJI Matrice 350 RTK UV Corona Inspection Bundle using OFIL Microm Corona Camera

This specialized aerial inspection bundle pairs the high-performance DJI Matrice 350 RTK with the OFIL DayCor® micROM HD – a compact, dual-spectrum UV-visible camera designed for detecting corona and arcing phenomena on high-voltage electrical infrastructure.



DJI Matrice 350 RTK Magnetometric Survey Package using SENSYS MagDrone R3

This advanced aerial magnetometry package features the powerful DJI Matrice 350 RTK drone combined with the SENSYS MagDrone R3 magnetometer – delivering precise and efficient magnetic field data collection for professional applications. Integrated with SENSYS Magneto software, UgCS EXPERT, SkyHub onboard computer, and True Terrain Following technology.



DJI Matrice 350 RTK Bathymetric Survey Package for Shallow Water using Single Frequency Echosounder

This streamlined bathymetric survey solution pairs the reliable DJI Matrice 350 RTK with the compact and efficient Echologger ECT 400S single-frequency echo sounder, equipped with tilt and temperature sensors and drone-compatible mounting hardware. Integrated with Hydromagic Survey, UgCS EXPERT, SkyHub onboard computer, and True Terrain Following technology. Optimized for shallow water surveys, coastal studies, canal inspections, and environmental monitoring.

Combo Packages



DJI M350 RTK Bathymetric Survey Package for Deep Waters using Dual Frequency Echosounder

This all-in-one solution combines the power of the DJI Matrice 350 RTK with the precision of the Echologger ECT D052 dual-frequency echo sounder, delivering reliable bathymetric data in deep and complex water environments. Equipped with tilt and temperature sensors, drone-ready mounting, and fully integrated with Hydromagic Survey, UgCS EXPERT, and SkyHub systems, this package enables professional-grade underwater mapping with real-time True Terrain Following and obstacle avoidance.



M350RTK with CHC AA10 High Precision LiDAR Mapping and Ground Surveying Bundle using South GNSS

This comprehensive professional bundle combines DJI's powerful Matrice 350 RTK drone platform with CHC AA10 LiDAR, Terrasolid Terrascan, DJI Terra Pro, and a complete South GNSS base and rover system – delivering an all-in-one solution for advanced aerial mapping and ground surveying.



DJI Matrice 350 RTK with Share PSD102S V3 Aerial Oblique Photogrammetry and Ground Surveying Bundle using South GNSS

This comprehensive professional bundle combines DJI's powerful Matrice 350 RTK drone platform with Share PSD102S V3 Aerial Oblique Photogrammetry and Ground Surveying Bundle using South GNSS.



DJI Matrice 350 RTK Bathymetric Survey Package for Shallow Water using Single Frequency Echosounder

This all-in-one solution combines the power of the DJI Matrice 350 RTK with the precision of the Single Frequency Echosounder, delivering reliable bathymetric data for shallow water.

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Thank You!




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