



Global Mapping



 *The beginning of every good project ...*



SERVICES



LiDAR

We carry out LiDAR flights, with high density of land points from 1 to 100 per m², with absolute precision of 5 cm in vertical and 7 cm in horizontal, requiring minimal field control intervention and without field control for scales of less than 1:2000; with permanent link to IGN's network and satellite processing. In addition, we incorporate the capture of color and infrared photographs at spatial high-resolution above 3cm to 4 integrated bands. On the other hand, it has a stabilized rotation system for better alignment of photographs and data, plus pulse repetition frequency greater than 2,000 kHz.

The LiDAR point cloud generated has multiple applications, such as:

- Mining and civil surface modeling.
- Inspection of aerial transmission lines.
- Determination of mass volume.
- Urban and rural cadastre.
- GIS applications.





Our LEICA Airborne Laser is capable of detecting an unlimited number of laser returns for each push-button scanning, obtaining a high density of LiDAR points, in a single flight mission. We also incorporate a digital sensor for capturing high-resolution RGB and IR images.



For this specialized service we count on:

- Aircraft with autonomy greater than 6 hours for aerial photography missions.
- Latest top LiDAR sensors.
- RGB, IR and multi-spectral metric cameras

Likewise, our service allows you to optimize time, reduce field work and obtain high-quality images even in large areas.





TOPOGRAPHY

We carry out 3D mapping, through measurements with high precision and high speed equipment, such as:

- 1" Total stations
- Digital levels.
- Scan station offering long range capabilities
- GPS Differential and RTK system
- Latest generation software
- RPAS (Drone) with MTC certified personnel

As a result of this service, a graphic representation of surfaces and / or structures with high planimetric, altimetric and volumetric precision is obtained.

Through our technology and specialized staff we obtain products with high precision, quality of images, fast and safe, for our customers satisfaction.





PHOTOGRAMMETRY

To provide this specialized service we offer:

- High Resolution Digital Metric Cameras in RGB and IR. (Multispectral)
- IMU and GPS Inertial Navigation and Measurement Systems for an aerial triangulation and precise photogrammetric adjustment with a minimum of control points required.
- RPAS systems (Drone), high quality images are obtained in smaller areas.

The restitution of the images and their orthorectification allow us to generate 3D vector information and realistic modeling of the surface, which can be integrated into various CAD, GIS, and virtual infrastructure and cadastre platforms, simulation and virtual flights for land recognition.



TOPOGRAPHIC BRIGADES

Our Topographic Brigades are made up of High Accuracy measuring equipment and a group of professional topographers who perform the following tasks:

- Supervision and topographic control of tunnels.
- Topographic control of construction in Geotechnics (Massive Land Movement), road and architecture construction; mechanical and piping.
- Control and monitoring of High Precision Polygonal projects.
- 3D Laser Surveying.
- Among others, according to client's requirements under their procedures and controls.



ENGINEERING DESIGNS

Elaboration of feasibility, basic and detailed engineering projects: geometric design on roads, accesses, ponds, dumps, platforms, pipe lines, hydroelectric power plants; elaboration of engineering plans at plants, project proposals, cross sections, measurements, technical specifications, budget, schedule.





OUR CORE VALUES



TECHNOLOGY

Innovation to provide services that fit your needs for time, accuracy and cost.



QUALITY AND PRECISION

Develop each project with the highest quality standards in accordance with local and international technical standards.



TRUST

Experience and personal treatment to manage projects considering scale and sensitivity of the opera-

QUALITY POLICIES

We are a company dedicated to provide digital cartography solutions, aimed at meeting the requirements of our customers, reaching levels of accuracy that ensure your confidence.

Compliance with standards, technical standards and applicable requirements, our state-of-the-art technology and highly qualified professionals committed to the continuous improvement of the Quality Management System constitute the hallmark of Global Mapping.

Certifications:



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