

Photogrammetry

Professional Photogrammetric Solutions

Key Products:

- Aerial Photography (Color, B/W)
- Airborne GPS and IMU
- Geodetic / GPS Surveying
- Analytical Aerial Triangulation
- Base Mapping
- LiDAR Acquisition & Processing
- LiDAR Contours
- LiDAR DEM
- LiDARgrammetry
- Data Conversion
- Digital Image Scanning
- Digital Orthophotography
- Digital Elevation Models (DEMs)
- Digital Terrain Models (DTMs)
- Planimetric Mapping
- Topographic Mapping
- GIS Services
- Land-Use Land Cover Mapping
- Color Infrared Aerial Photos
- Thermal Mapping
- Photo Lab Services
- Volumetric Mapping / Analysis

Key Facts:

- Two Cessna Grand Caravan aircraft with OPTECH LiDAR sensors and Leica RC-30 camera systems with IMU
- Project Managers with over 20 years of experience
- Two Certified Photogrammetrists on staff
- Two Certified GIS Professionals
- In-house photo lab
- ESRI Authorized Business Partner

Optimal Geomatics, Inc.

Optimal Geomatics, Inc. (OPTIMAL) is a full-service geospatial company with a commitment to quality and customer service. Our experienced team of Certified Photogrammetrists, Professional Land Surveyors, Certified GIS Professionals, Mapping Technicians, Flight Crew and LiDAR Analysts stand ready to provide timely information and project support.

OPTIMAL offers a full range of aerial photogrammetry services to a variety of customers. OPTIMAL has decades of photogrammetric experience in serving customers in the geospatial community and providing services and products in a timely manner. Continuing our mission to provide our customers with the best possible data, we acquired two Cessna Grand Caravan aircraft each containing a Leica RC-30 aerial camera, as well as a Optech LiDAR system. Our equipment capacity not only improves our ability to deliver quality products but allows us to respond and complete projects in shorter timeframes.

OPTIMAL is also ideally positioned to minimize subcontractor dependency and to better control schedules and quality by offering expertise in all key services in-house. These services include: aerial data acquisition, ground surveying, airborne GPS, IMU, photo development/film processing, image scanning, softcopy photogrammetry, Aerotriangulation and Compilation.



Planimetric Layers



1"=100' Color Aerial Photo — Palm Beach, FL

Photogrammetric Project Management

Project Planning and Equipment Offerings

All OPTIMAL projects are planned with the particular needs of each client in mind under the management of ASPRS Certified Photogrammetrists. This ensures compliance with professional standards of technical design, accuracy, and reporting. With seventeen (17) first-order softcopy photogrammetric workstations available for in-house aerial triangulation and 3D data compilation, OPTIMAL has one of the largest internal capacities found among North American photogrammetry providers. By applying database-driven proprietary compilations software in a Bentley MicroStation environment, data is collected and organized to suit the specific output needs of each project. OPTIMAL provides data in a wide range of formats including: MicroStation™, InRoads™, GEOPAK™, AutoCAD™, ArcInfo™, and other ESRI products, as well as SDS, TSFMS, FMS, SDSFIE, and FMSFIE geospatial data formats.



Softcopy IMZ Photogrammetric Workstation



Key Benefits

OPTIMAL is dedicated to customer satisfaction and technical excellence. OPTIMAL has integrated highly skilled and experienced professionals with advanced digital processes and equipment to form one of the most sophisticated Airport Obstruction Surveys, LiDAR, Digital Photogrammetric Mapping and Surveying solutions available in North America and other global regions.

OPTIMAL is eager to discuss our qualifications with you at your earliest convenience. OPTIMAL strives to reach beyond the typical client relationship to form a client partnership. We appreciate our relationships with our customers and we are committed to working together with you to achieve your goals.

OPTIMAL applies the following services to a wide range of project types:

- GIS Base Mapping and Orthophoto Projects
- Land Development Site Mapping
- Floodplain Mapping
- Facilities Site Mapping
- Corridor Mapping for Route Location and Planning
- Design-Scale Mapping for Engineering and Construction
- Utility Corridor Mapping for Asset Management
- Stockpile Volumetric Mapping for Material Inventories



Cessna Grand Caravan - Equipped with Leica RC-30 camera, IMU & OPTECH 3100 LIDAR Unit

optimal **geom**atics

Map the present. Manage the future.

www.optimalgeo.com

For
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