



## AIRBORNE LIDAR SERVICES //

AERIAL MAPPING

By owning our own aircraft and deploying the most advanced technologies, we provide our clients fast, accurate, and high-quality data through our airborne LiDAR services. Airborne LiDAR provides extraordinary efficiency and speed in gathering accurate spatial data and is integrated with our image sensors to provide simultaneous LiDAR and image acquisition.

[sam.biz](http://sam.biz)



Our solutions are designed to provide clients with the point density and coverage options that meets their specific needs. With sensors mounted on manned and unmanned platforms, our airborne LiDAR sensors can be tailored to generate high-density point clouds for feature extraction of transmission line mapping and highway design surveys or lower point densities where applicable for wide area mapping such as land development, ALTA surveys, municipal mapping, and countywide GIS updates.

SAM owns and operates airborne LiDAR sensors and a fleet of manned and unmanned aircraft, giving us total control over the process and the resource capacity to meet clients' demanding schedules.

### **What differentiates SAM?**

SAM differentiates itself in the industry by investing heavily in the three most important pieces needed to deliver exceptional airborne LiDAR solutions. First and most importantly is the development, recruitment, and continuing education of a diversified experienced professional staff. Over 1000 scientists, licensed geomatics experts, certified photogrammetrists, certified LiDAR specialists, certified thermographers, GIS professionals, and remote sensing analysts make up the geospatial team. Second, to enhance product quality our professionals utilize the most advanced modern aviation, scanning, and image technology available. Finally, SAM's hardware and software infrastructure is built to support the geospatial processing demands.

We operate the most advanced LiDAR scanning systems available, giving you an exceptionally high rate of data capture, a broad field-of-view, and high-resolution results. A key benefit of our scanning systems are their high data density capabilities, ranging from 50 to 100 points per square meter, flying at altitudes and speeds previously unobtainable.

### **Complete in-house data processing**

Using multiple data processing software systems, SAM tailors LiDAR data processing to the specific needs of the client. We are able to deliver data in a wide variety of digital formats including all the most commonly used CADD and GIS formats.

We upgrade our instruments and software regularly to ensure compatibility with client systems and to safeguard the integrity and security of data. All LiDAR processing is performed in SAM offices within the U.S., ensuring the client's critical infrastructure is never compromised by data security threats.

### **Key Services:**

- Data Acquisition and Processing
- Fixed-wing, Rotary, and UAS Aerial LiDAR Platforms
- Semi-automated Data Classification and Feature Extraction
- Integrated LiDAR with Airborne, Mobile, and Terrestrial Scanners
- Multi-Sensor Scanning and Image Arrays

## **What differentiates SAM?**

SAM has built a reputation as a trusted, knowledgeable, and innovative partner. SAM transforms petabytes of complex spatial data into intelligent insights in a holistic Managed Geospatial Services™ (MGST™) framework. As North America's premiere MGST™ company, SAM provides practical, precise, and high-fidelity solutions designed to enhance decision-making, mitigate risks, achieve strategic objectives, and drive costs out of our client's business. Our vision is to advance spatial data acquisition, improve analysis capabilities, and develop predictive analytics to redefine and transform how infrastructure assets are developed and managed throughout their lifecycles.

## **REACH OUT TODAY**

**Want to experience the SAM difference for yourself?**

Learn how we can put our resources to work for your next program. Call us toll free at **(800) 656-9525** or visit us at **sam.biz**