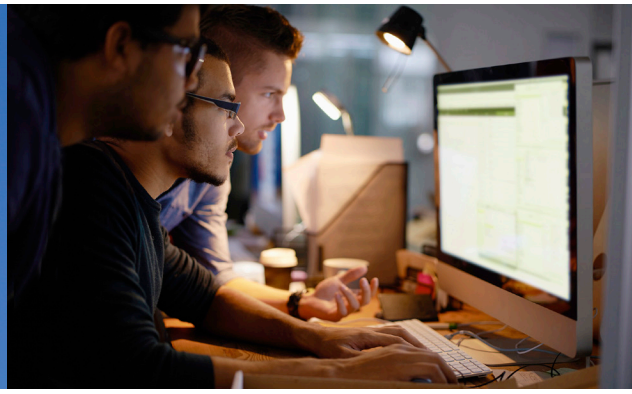
GeoOptix®

by sitka® technology group



ORTHOIMAGERY 4K VIDEO DIGITAL SURFACE MODELS POINT CLOUDS

Assess a 50-acre Site in 30 Minutes or Less with Sitka FlightPath™

OVERVIEW

Sitka FlightPath, an additional data collection option of our GeoOptix® platform, uses unmanned aerial systems (UAS) for terrestrial and aquatic surveys. In a single flight, we are able to collect all the data needed to provide our customers with high-resolution, georeferenced orthoimagery, topographic datasets, metrics and more to help them monitor and manage natural and anthropogenic changes to the landscape.

Sitka meets FAA regulatory requirements for commercial drone operations by using FAA-licensed pilots under an FAA Section 333 exemption and Certificate of Authorization. We manage all the flight details so you can remain focused on stewardship.

1. Improves accuracy and efficiency of field data collection with ground sampling distances of ~2 centimeters
2. Collects a wealth of survey data from a single flight
3. More cost-effective than LIDAR for smaller sites
4. Perfectly suited to monitor and measure change over time

"Digital terrain models from UAS flights offer an efficient and accurate way to monitor and measure change on our lands. We can adapt our management plans in response to our findings, and ultimately work smarter toward our restoration goals." Ian Sinks | Columbia Land Trust

WHAT YOU CAN SUPPORT

With ground sampling distances of ~2 centimeters, it has never been easier to support:

- Compliance monitoring (ESA, NEPA, NHPA, etc.)
- Forest inventories
- Land appraisals and due diligence
- Pre and post-construction site assessments
- Fish passage barrier inventories
- Riparian vegetation assessments
- Environmental accounting calculators for credits/debits
- Asset management-based risk assessments

WHAT IT COSTS

A major benefit of doing a UAS-based survey is the cost savings. A typical FlightPath survey ranges from $3000 to $5000 and includes all image stills from the flight. Our customers have also found these flights provide higher resolution topographic data than other methods. Following is a typical cost breakdown for our FlightPath service:

- Mobilization Fee: $1500 - $2500 (varies due to complexity and survey location)
- Day Rate: $1500
- Electro-optical Sensor Products ($500 per selection):
  - 4K Video
  - Orthoimagery
  - Point Cloud
  - Digital Surface Model
- Near-infrared Sensor Products ($750 per selection):
  - NDVI (Vegetation Health)

In 2016, Columbia Land Trust implemented a UAS-based monitoring trial to detect, monitor, and manage invasive reed canarygrass, marsh vegetation development, and other physical features within their restoration areas.

GET STARTED

For organizations interested in streamlining their monitoring programs with GeoOptix®, please contact us at **1.800.805.6740** or **sales@sitkatech.com**
For more information, please visit: **www.sitkatech.com/GeoOptix**

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