



Babcock Ranch, FL

**LANCER**  
**AERIAL**

LancerAerial.com

formerly LightMark Aerial

# ELEVATE YOUR DATA

42881 Lake Babcock Drive, Suite 200  
Babcock Ranch, FL 33982

LancerAerial.com  
@lanceraerial

# About Us

Lancer Aerial, formerly LightMark Aerial, is a premier drone technology company specializing in surveying, mapping, environmental monitoring, and emergency management. We leverage state-of-the-art LiDAR, photogrammetry, and water quality analysis to deliver precise, actionable data for municipalities, land developers, and environmental agencies. Our expertise ensures that clients receive cutting-edge solutions tailored to their unique needs, improving efficiency, accuracy, and sustainability in every project.



## Message from the CEO

When I founded Lancer Aerial, I envisioned a company that would redefine how industries leverage drone technology. Coming from a background that has always valued innovation, problem-solving, and resilience, I knew there was a gap in the market for a drone company that didn't just provide data but delivered real, actionable insights. Every day, our team works to push the limits of what's possible, ensuring that our clients receive the highest quality service with precision and efficiency.

At Lancer Aerial, we believe in more than just technology—we believe in partnerships. We don't just fly drones; we integrate ourselves into the mission of each organization we work with. Whether we are helping a municipality improve infrastructure planning, supporting emergency responders with real-time disaster assessments, or assisting conservationists in protecting our natural resources, we are driven by a singular purpose: to make a difference from above.

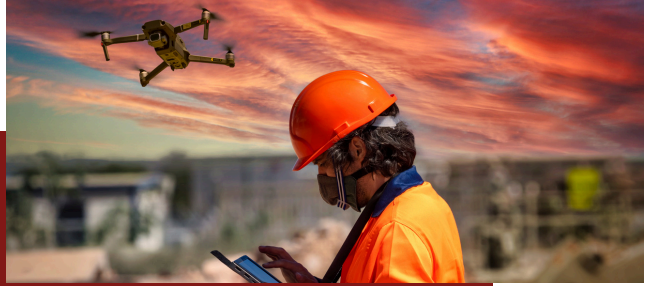
Our commitment is not just to innovation but to people. We understand that behind every project is a team striving for success, and we take pride in being a trusted partner in achieving that success. As we continue to grow and expand our capabilities, we remain dedicated to delivering solutions that are not only cutting-edge but also practical and impactful.

Thank you for trusting Lancer Aerial. Together, we are setting new standards and elevating industries to new heights.

*Lance Wissinger*

# Our Vision

- We hope to be the bridge between 20th and 21st century technologies. In many cases we can create faster and more accurate mapping without putting workers in dangerous positions.
- By continuously advancing our capabilities, fostering partnerships, and adapting to emerging market demands, Lancer Aerial is not just keeping up with the future—we're leading it from above.



# ELEVATE YOUR DATA

## Our Services

Urban Planning & Development  
Disaster Response & Management  
Environmental Monitoring  
Wildlife Conservation Land Mapping  
Water Quality Monitoring  
Mosquito Control



## Urban Planning & Development

### LiDAR Surveying & Mapping: Precision in Aerial Data Collection

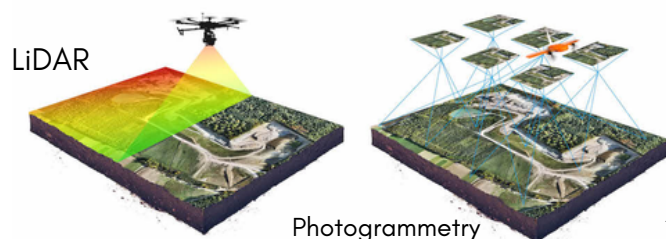
LiDAR surveying has transformed topographical analysis and land development. Using laser pulses from drones, it creates precise 3D terrain maps, benefiting construction, environmental monitoring, forestry, and urban planning. LiDAR excels in mapping dense vegetation and challenging landscapes, collecting millions of data points quickly and reducing the need for manual surveys.

Lancer Aerial, in partnership with Florida Drone Supply, offers industry-leading LiDAR solutions with advanced drone platforms and high-resolution sensors. Our technology supports floodplain modeling, infrastructure planning, and agricultural assessments, delivering accurate data for informed decision-making.

### Photogrammetry & Orthomosaic Mapping: Advancing Aerial Imaging

Photogrammetry and orthomosaic mapping provide high-resolution, geospatial images for aerial surveying. By capturing overlapping drone images and processing them into detailed maps, these tools support construction, agriculture, and urban planning. Orthomosaic maps offer precise, up-to-date views for monitoring and planning.

Lancer Aerial delivers advanced mapping with high-resolution drones and processing software. Our imagery enhances decision-making for inspections, infrastructure, and conservation, improving productivity while reducing costs.





## Disaster Response & Management

Florida and the Southeastern U.S. frequently face natural disasters. Rapid response and accurate situational awareness are crucial for mitigating damage, deploying resources, and ensuring public safety. Drones have become essential in emergency management, providing real-time aerial assessments, search-and-rescue support, and damage evaluations without risking personnel.

By capturing high-resolution imagery and thermal data, drones improve coordination among emergency agencies, enhancing disaster preparedness and recovery. Our aerial surveys help local governments, emergency teams, and relief organizations assess damage, locate survivors, and monitor threats in real time.



From hurricane assessments to wildfire tracking, our drones provide critical intelligence for decision-making and resource allocation. With rapid, safe access to hard-to-reach areas, Lancer Aerial strengthens emergency response, helping communities recover faster.



## Environmental Monitoring/Wildlife Conservation

Florida's ecosystems, from the Everglades to coastal wetlands, require constant monitoring for preservation. Drones have revolutionized environmental tracking by offering a non-invasive, efficient way to collect critical data. Equipped with advanced sensors, thermal imaging, and high-resolution cameras, they monitor wildlife, assess habitat changes, and detect threats like algal blooms and pollution. In Southwest Florida (SWFL), drone-based monitoring helps researchers and agencies protect fragile ecosystems.



Lancer Aerial specializes in wildlife and environmental monitoring tailored to Florida's landscapes. Our aerial surveys track coastal erosion, endangered species, and human impact on habitats. Using drone technology with GIS mapping and real-time analytics, we deliver insights that drive conservation and policy decisions.

From monitoring mangroves and marine life to assessing hurricane damage, our solutions support Florida's environmental sustainability.

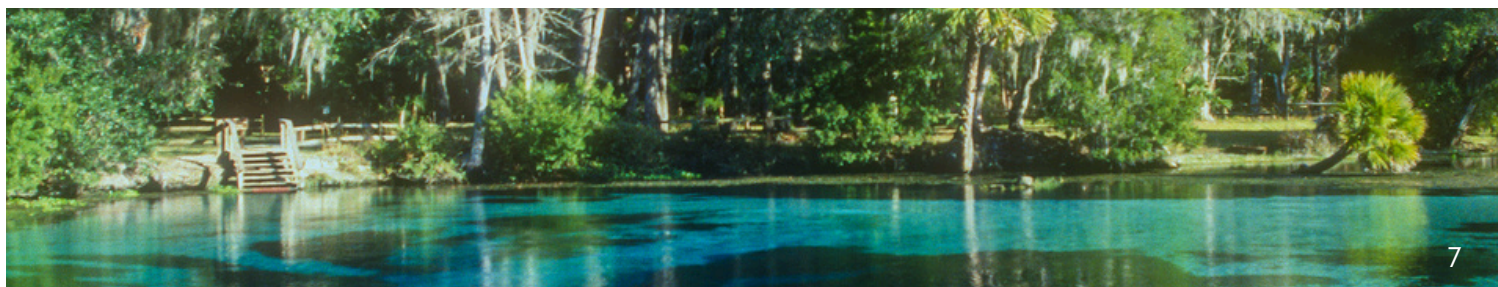


## Water Quality Monitoring

### Safeguarding Florida's Waterways

Florida's waterways are crucial to its ecosystems, economy, and communities but face threats from pollution, algal blooms, and rising salinity. Drones revolutionize water quality monitoring by collecting real-time data without invasive sampling. Equipped with specialized sensors, they assess clarity, detect pollutants, and track harmful algal blooms impacting marine life and public health. In Southwest Florida (SWFL), aerial monitoring enables proactive management of recurring red tide and blue-green algae outbreaks and will be effective in other areas.

Lancer Aerial provides water quality monitoring tailored to each environment. Using drones with multispectral and thermal imaging, we help municipalities, agencies, and researchers develop mitigation strategies. Our technology enables large-scale assessments of coastal waters, rivers, and lakes, supporting conservation and regulatory compliance. From tracking runoff pollution to evaluating post-hurricane conditions, Lancer Aerial delivers critical insights to protect Florida's water.





## Mosquito Contol

BioFly Defense, a division of Lancer Aerial, is transforming mosquito control with advanced drone technology. Utilizing high-precision UAVs, BioFly delivers targeted, efficient, and environmentally responsible aerial treatments to combat mosquito populations in Florida.

By leveraging drone-based applications, BioFly significantly reduces chemical usage, minimizes pesticide drift, and enhances coverage in both urban and remote areas. This innovative approach ensures a safer and more effective solution to mosquito management, addressing public health concerns while maintaining ecological balance.



As mosquito-borne diseases continue to threaten communities, BioFly Defense is leading the charge in proactive prevention. Serving areas across Florida, BioFly's autonomous drone fleet provides real-time monitoring and treatment, keeping residents protected while reducing reliance on traditional ground-based spraying.

Through innovation, precision, and sustainability, BioFly Defense is setting a new standard for the future of aerial mosquito control.

# Cutting-Edge Drone Technologies



## **DJI Matrice 350 RTK**

An upgraded flagship drone platform, the Matrice 350 RTK sets a new benchmark for the industry. This next-generation drone platform features an all-new video transmission system and control experience, a more efficient battery system, and more comprehensive safety features, as well as robust payload and expansion capabilities. It is fully powered to inject innovative strength into any aerial operation.



## **DJI Mavic 3 Enterprise**

The Mavic 3 Enterprise Series redefines industry standards for small commercial drones. 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. A thermal version is available for firefighting, search and rescue, inspection, and night operations.



## **DJI AGRAS T40 Agricultural Drone**

The AGRAS T40 is equipped with the revolutionary Coaxial Twin Rotor design, enabling it to carry a spray load of 40 kg [1] and a spread load of 50 kg (70 L) [1]. The aircraft is built in with a Dual Atomized Spraying System, DJI Terra, Active Phased array Radar and Binocular Vision. It supports multiple missions from surveying, mapping, to spraying and spreading, helping achieve ultimate precision in your agricultural operations.



## **DJI Zenmuse L2 Lidar Camera / Gimbal**

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.



## **DJI Zenmuse XT Thermal**

Thermal imaging from the air has never been as easy as it is with the DJI Zenmuse XT. By combining DJI's unrivaled expertise in gimbal technology and image transmission with the industry leading thermal imaging technology of FLIR, the Zenmuse XT is the ultimate solution for rapid and reliable aerial thermal imaging. Capture faster, with pinpoint precision, over large areas, then save them for analysis and reporting.



## Our Mission

Lancer Aerial's mission is to revolutionize aerial data collection with fast, precise, and sustainable drone technology. We will develop processes to eliminate inefficiencies, minimize environmental impact, and deliver real-time insights for smarter decision-making. We are shaping a future where innovation, convenience, and sustainability work together seamlessly.





Lance Wissinger  
CEO, Founder



Tim Hennessy  
COO, Partner

## Meet Our Team

With Florida's continued population growth and infrastructure development, demand for drone-based surveying, mapping, and environmental monitoring is projected to rise significantly.

Lancer Aerial's services are powered by cutting-edge drones and sensors. Each capability integrates advanced hardware, software, and analytical tools to deliver industry-leading results.

## Contact Us

### EMAIL

[elevate@lanceraerial.com](mailto:elevate@lanceraerial.com)  
[ceo@lanceraerial.com](mailto:ceo@lanceraerial.com)

### PHONE

239-770-0465



### ADDRESS

42881 Lake Babcock Dr.  
Suite 200  
Babcock Ranch, Florida 33982

### WEBSITE

[lanceraerial.com](http://lanceraerial.com)

### SOCIAL

 [@lanceraerial](https://www.facebook.com/lanceraerial)  
 [@lanceraerial](https://www.linkedin.com/company/lanceraerial)



**LANCER  
AERIAL**  
Elevate Your Data

42881 Lake Babcock Drive, Suite 200  
Babcock Ranch, FL 33982

LancerAerial.com  
@lanceraerial