



**Flying Lion
Drone Service Provider**

Drones in Law Enforcement



Tactical Deployment

Patrol Officers
and/or Field
Supervisors Have
Drones In Vehicles

Certificate of
Authorization
(COA) and/or Part
107 Trained
Officers

Close Quarters Operations

Deployment of
Drones Inside
Buildings and/or
Vehicles

Optional:
Certificate of
Authorization
(COA) and/or Part
107 Trained
Officers

Accident/Incident Re-Creation

Photographs,
Video and
Mapping of
Accident/Incidents

Part 107 Trained
Officers

Drones as a First Responder (DFR)

Pilots on Rooftops
for Immediate
Response to
Dispatch or 911
Calls

Certificate of
Authorization
(COA) and Part
107 Trained
Officers

Drones in Law Enforcement



FLYING
LION, INC.

Consulting

Implementation

Training

Personnel

Leasing

Flying Lion Projects

Public Safety



- BVLOS Operations - Chula Vista PD DFR Operation
- Sporting Event or Large Crowd Monitoring
- Search and Rescue / Critical Missing
- Police and Fire Over Watch Detail
- Area / Suspect Searches
- Search Warrant
- OIS Investigation
- Fatal / Major Accident
- Transient Census



Flying Lion Service Models



FLYING LION SERVICE MODELS

DEPARTMENT MANAGED

On Demand Drone

Program Development

Equipment Evaluation

Aircraft Leasing

DFR RPIC Staffing

FAA COA Submissions

UAS Program Consulting

RPIC Training

HYBRID

On Demand Drone

Program Development

Equipment Evaluation

Aircraft Leasing

DFR RPIC Staffing

FAA COA Submissions

UAS Program Consulting

RPIC Training

HYBRID

On Demand Drone

Program Development

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FAA COA Submissions

UAS Program Consulting

RPIC Training

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FAA COA Submissions

UAS Program Consulting

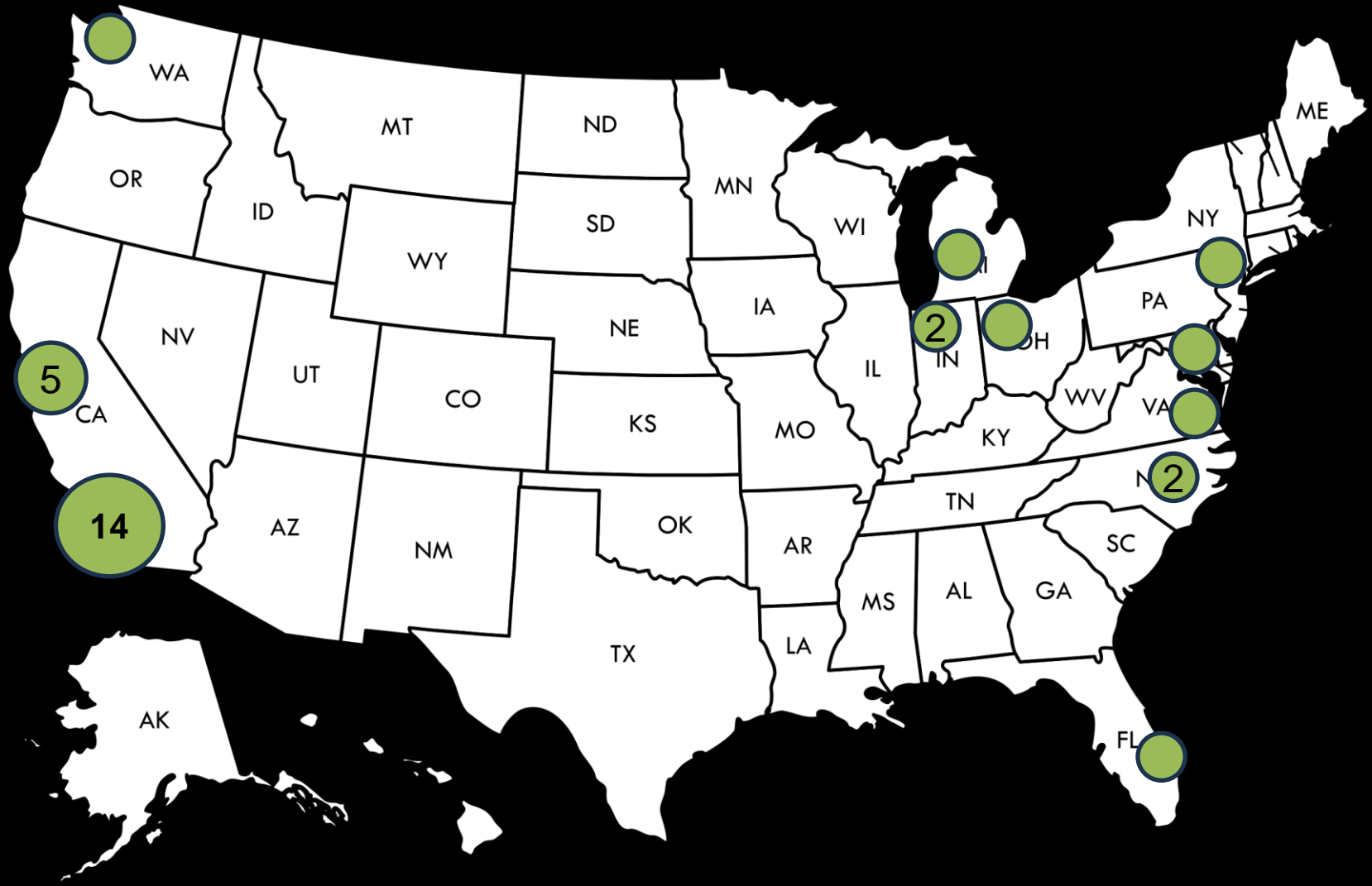
RPIC Training

■ CUSTOMER MANAGED

■ FLYING LION MANAGED

Flying Lion DFR Customers

(includes Consulting, DFR Staffing, FAA Regulations and Training)



Drones in Law Enforcement



Behind the Scenes at Chula Vista PD DFR Program



Santa Monica Police Department

Drones provide crucial intel to Santa Monica police



BEVERLY HILLS COURIER

POL. LVIII No. 4 JANUARY 28, 2022 THE NEWSPAPER OF RECORD FOR BEVERLY HILLS BEVERLYHILLSCOURIER.COM

Inside the Beverly Hills Police Department's Pilot Drone Program

BY SAMUEL BRASLOW

The Beverly Hills Police Department (BHPD) has been conducting a pilot program testing the use of drones to assist with policing the Business Triangle. The initiative is among a handful of actions promoted by the new Police Chief Mark Stainbrook, and according to the department, it has been a success.

"It's just another set of eyes and ears out there and gives us the ability to get over calls very quickly," Stainbrook told the Courier. Stainbrook announced the program at a community forum in December, with the first test run taking place on Dec. 10

"In support of patrol operations." While Stainbrook laid out a vision of "seven days a week, 24-hour coverage," the pilot program currently makes the drone available Saturdays through Tuesdays, 40 hours a week. The BHPD examined crime trends those days, said BHPD Public Information Officer Lt. Giovanni Trejo.

(Drone Program continues on page 10)



While Stainbrook characterized the program's early results as a success, he added that it still needed work. "We're still working through technical issues," he said.

The drones are operated by a two-person team that launches the craft from a parking lot roof to minimize the visual interference from buildings. The drones can fly within a range of three to five miles for 25 minutes before they must return to base for a camera capable of taking still images and recording video.

The city has contracted with the drone operator Flying Lion, one of the few enforcement, Stainbrook said.

Stainbrook and Trejo pointed to two uses in which the drone program has already played an integral role in law enforcement.

On Jan. 23, BHPD responded to a call of petty theft at the Rite Aid on Canon Drive. The suspect fled the scene, and the operators launched the drone.

"The suspect was literally one block over of a parking structure on Crescent. Had it not been for the drone, the ground units would have never seen this suspect hiding up in the parking structure."

The following day, immediately after launching the drone on top of the Santa Monica Boulevard parking structures for a routine patrol, operators "saw a male in a nearby alley who suddenly stepped onto private property very near the garage door" of a house, Trejo said.

The operators zoomed in on the male and observed him "hiding from public view." The operators directed officers to the location where they arrested the individual.

Trejo said that the two examples demonstrated proactive and reactive uses of the drone. "We have reasons to continue to justify the use of the drone program in the manner in which we've used it so far. That is, crime prevention and apprehension of suspects who are wanted for a crime that has occurred."

Privacy groups have warned for over a decade that drones could further erode privacy in an age of near-constant surveillance.

"The prospect of cheap, small, portable flying video surveillance machines threatens to eradicate existing practical limits on serial monitoring and allow for pervasive and abusive use of these tools in a way that could eventually eliminate the privacy their movements and activities," American Civil Liberties Union said in a 2009 report that anticipated the increasing role of drone technology in law enforcement.

According to the Atlas of Surveillance, a joint project of Electronic Frontier Foundation and the University of Nevada, at least 1,181 police departments in the United States are using drones.

Trejo defended the privacy precautions taken by the city. The pilot program

currently focuses on the Business Triangle, minimizing potential interactions with private property. He added that the drones "don't fly specifically over a house or over a residence for the purpose of just monitoring what is in the residence, either in the backyard or on top of the roof."

"We fly over an area for protection of life, protection of property, and we only fly over a specific location when we have justification to do so," said Trejo.

Inclement weather paired with COVID-19 staffing shortages prevented the department from launching drones for large parts of the last month, prompting BHPD to extend the pilot another month to collect more data before evaluating the program. Even after more data comes in, though, Stainbrook says he is no rush to scramble the drones.

He acknowledged that the department has to figure out the best use of the drones in the context of the other tools at BHPD's disposal. "The challenge is how do we blend it into all the other technology we have with the [CCTV] cameras and the license plate limited way?"

The department currently has enough funding to run the pilot program through the end of the fiscal year. Once BHPD has a concrete proposal for an extended-drone program, it will present its request to the City Council for additional resources.



Drone operators observed a man using illicit substances, leading to his arrest. Photo courtesy of BHPD.

DFR – Flying Lion by the Numbers



MAKING A DIFFERENCE ONE FLIGHT AT A TIME (AS OF JULY 1, 2024)

DFR FLIGHTS

42,936

Total DFR Missions

DFR BVLOS FLIGHTS

26,177

Beyond Visual Line of Sight

DFR FLIGHT HOURS

12,403

DFR Flight Hours

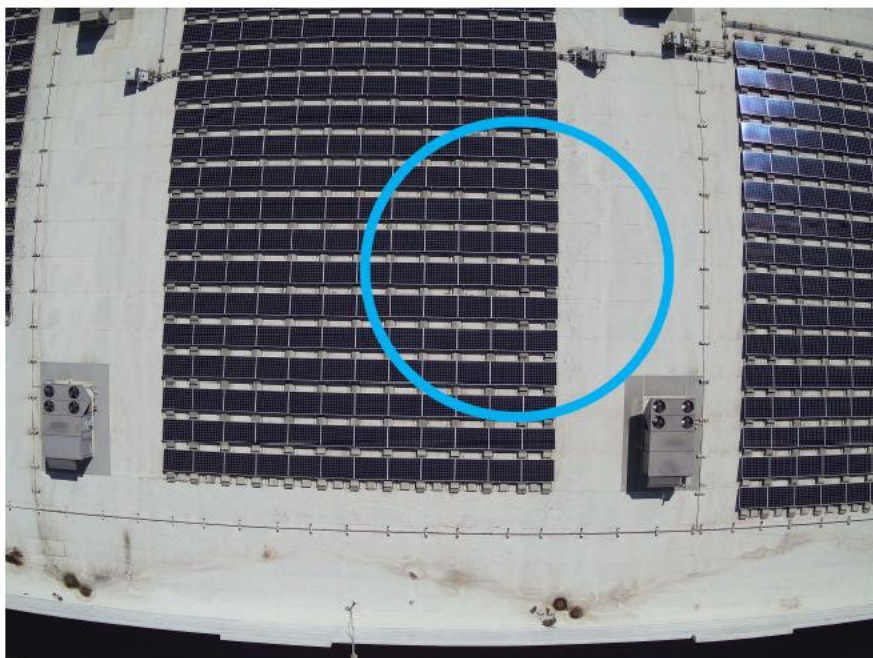
Flying Lion Projects Commercial

SKY LADDER

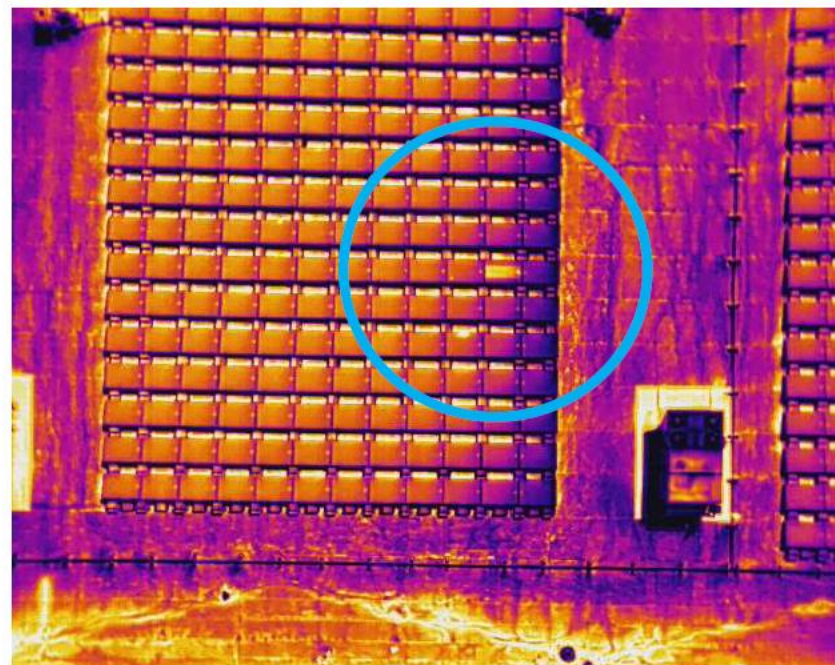


- 2D Mapping for Engineering & Construction Industries
- 3D Mapping/Modeling for Architecture/Design Firms
- Inspections (Visual and Thermal/FLIR)
- Documentation of construction progress
- Artificial Intelligence - Counting objects (Persons, vehicles, etc.) & Vegetation Coverage
- Façade Inspections (Cable Cam)

No Visible Issues



Suspected: Bypass Diode Failure



—
Structural Inspections

SKY LADDER



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OGV Emissions Testing Program "Smog-ing Giants"



Food Delivery

SKY LADDER



FLYING
LION, INC.





<https://youtu.be/tHQ1zqfukQY>

PRESS RELEASE

Flying Lion Secures Redondo BeachLife Festival with WhiteFox Drone Detection

Flying Lion partnered with law enforcement to secure BeachLife Festival's airspace using WhiteFox's drone detection technology.

Tuesday, September 21st 2021, 12:42 AM PDT



“WhiteFox’s DroneFox and STRATUS enhanced the aerial operations for the BeachLife Festival. With WhiteFox solution, Flying Lion provided Drone Operations Management, Law Enforcement Overwatch, and Drone Detection protecting attendees, talent, staff and Intellectual Property.”

– Barry Brennan, President Flying Lion

Flying Lion Projects Education

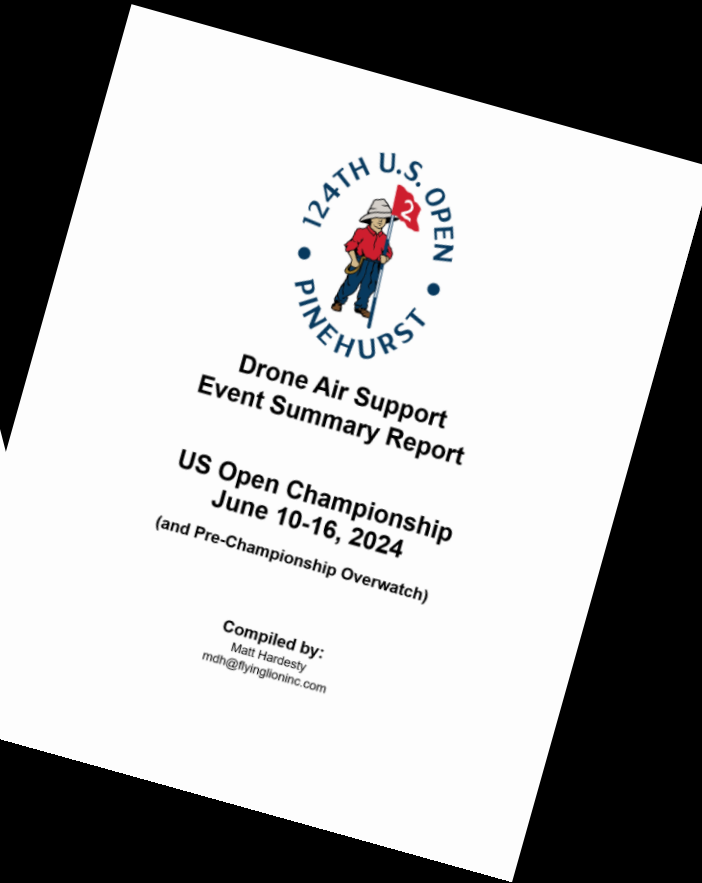


- Award Winning UAS Training

AUVSI XCELLENCE Award Winning
Training/Education Program



UAS – High Population Events



UAS Center of Excellence Train – Test – Collaborate



Flying Lion Projects Pro-Bono



- Numerous STE(A)M Programs at regional High Schools
- Showcasing Aerial Thermal/FLIR Technology
- Waterfowl Census at regional protected wetlands (finding bird nests via FLIR)
- Monitoring wildlife and participants at Grunion Runs at local Aquarium event
- Mapping of Regional Wetlands



The Future of UAS



The City of Los Angeles and the immediate area will host:

- FIFA World Cup 2026
- Super Bowl 2027
- Los Angeles Olympics 2028

Some of the applications that drones will be used for are:

- Aerial Photography – Journalists and Film Makers
- Intelligence Gathering for Project Management
- Geographic Mapping and Real Time “Google Maps”
- Building and Equipment Inspections
- Event Monitoring
- Unmanned Cargo Transport – Express Shipping and Delivery
- Public Safety – Thermal Sensors, Fire Department, Public Works
- Communication Links
- Entertainment
- Human Transportation

Questions?

