FAIRFIELD TOWNSHIP
RESOLUTION NO. 22-99

RESOLUTION TO APPROVE PURCHASE OF 13 FLOCK CAMERAS FOR THE POLICE DEPARTMENT FROM FLOCK SAFETY IN THE TOTAL AMOUNT OF $37,050.00.

WHEREAS: The Police Chief has recommended the purchase of 13 Flock cameras as they capture objective evidence and deliver unbiased investigative leads to law enforcement; and

WHEREAS: Flock Safety is a solar powered cloud-based software system that has been shown to reduce crime in some areas up to 70% in cities; and

WHEREAS: Cost including installation (first year only) is $37,050.00 with a recurring cost of $32,500.00;

NOW, THEREFORE, BE IT RESOLVED, by the Trustees of Fairfield Township, Butler County, Ohio, as follows:

SECTION 1: The Board of Trustees hereby approves the purchase of 12 Flock cameras from Flock Safety, for the Police Department in the total amount of $37,050.00 to be paid out of Fund ~~2191~~ 2217 and included herein on Attachment "A". sh mb motion sh mb absent jh

SECTION 2: This Resolution is the subject of the general authority granted to the Board of Trustees through the Ohio Revised Code and not the specific authority granted to the Board of Trustees through the status as a Limited Home Rule Township.

SECTION 3: That it is hereby found and determined that all formal actions of this Board concerning and relating to the passage of this Resolution were taken in meetings open to the public, in compliance with all legal requirements including §121.22 of the Ohio Revised Code.

SECTION 4: This Resolution shall take effect at the earliest period allowed by law.

Adopted: July 6, 2022

Board of Trustees	**Vote of Trustees**
Shannon Hartkemeyer: Shannon Hartkemeyer	yes
Michael Berding:	yes
Joe McAbee:	absent

AUTHENTICATION

This is to certify that this is a resolution which was duly passed, and filed with the Fairfield Township Fiscal Officer this 6th day of July, 2022

ATTEST:

Shelly Schultz

Shelly Schultz, Fairfield Township Fiscal Officer

APPROVED AS TO FORM:

L. E. Barbiere

Lawrence E. Barbiere, Township Law Director

June 23, 2022

TO: Julie Vonderhaar
Township Administrator

FROM: Robert Chabali
Chief of Police

SUBJECT: **Request to Purchase 13 Flock Cameras**

Mrs. Vonderhaar:

Flock Safety built the first public safety operation system that helps neighborhoods, businesses and law enforcement in thousands of cities work together to reduce crime. Flock Safety devices (cameras) capture objective evidence and deliver unbiased investigative leads to law enforcement. Flock Safety is a solar powered cloud-based software system that has been shown to reduce crime in some areas up to 70% in cities.

A large percentage of crimes occur with vehicle involvement and obtaining a vehicle license plate is often the best evidence to assist in solving crimes. License plates are open to plain view to anyone on the public roads and often gives our officers the first investigative leads when vehicles involved in criminal activity pass through a Flock Camera. This system can help with stolen vehicles, Amber Alerts, missing persons, and any other crime involving a vehicle, as long as a vehicle description is obtained. On many serious violent crimes, a vehicle description is given, but no license plate. This information can be put into the Flock Safety System which allows the officer to pull up vehicles fitting the description of the vehicle that went through a camera.

Flock software identifies body type, make, color, license plate (partial, missing, or covered plates), temporary plates, license plate state and unique features like decals, bumper stickers and accessories that create a traceable vehicle fingerprint. This software also provides the information in real time. The data is erased after 30 days and is solar powered and include internet connectivity.

Several cities in Butler County are either researching or have purchased this technology. The city of Middletown was recently approved. The city of Fairfield is budgeted for 2023 and the city of Hamilton is currently researching this technology. Obtaining this technology will also allow us to link into other departments having this system and vice versa. With local departments either being understaffed or having challenges hiring officers this is a way to work smarter and globally with the use of this technology.

The system is tied into the Nacional Crime Information Center (NCIC) and is automatically updated. Our officers can be alerted right into the MDTs through the Flock web page. It can also go into dispatch and additionally get emails or text message alerts within 7-15 seconds after a suspect vehicle passes a camera.

As you are aware, Fairfield Township sits in the middle of more populated municipalities – Cincinnati, Dayton, Fairfield, Hamilton and others. Our officers are constantly in contact with suspects from these and other municipalities committing crimes in our jurisdictions. As the recent May 26 incident at Walmart confirmed, we are not exempt from suspects committing significant crimes.

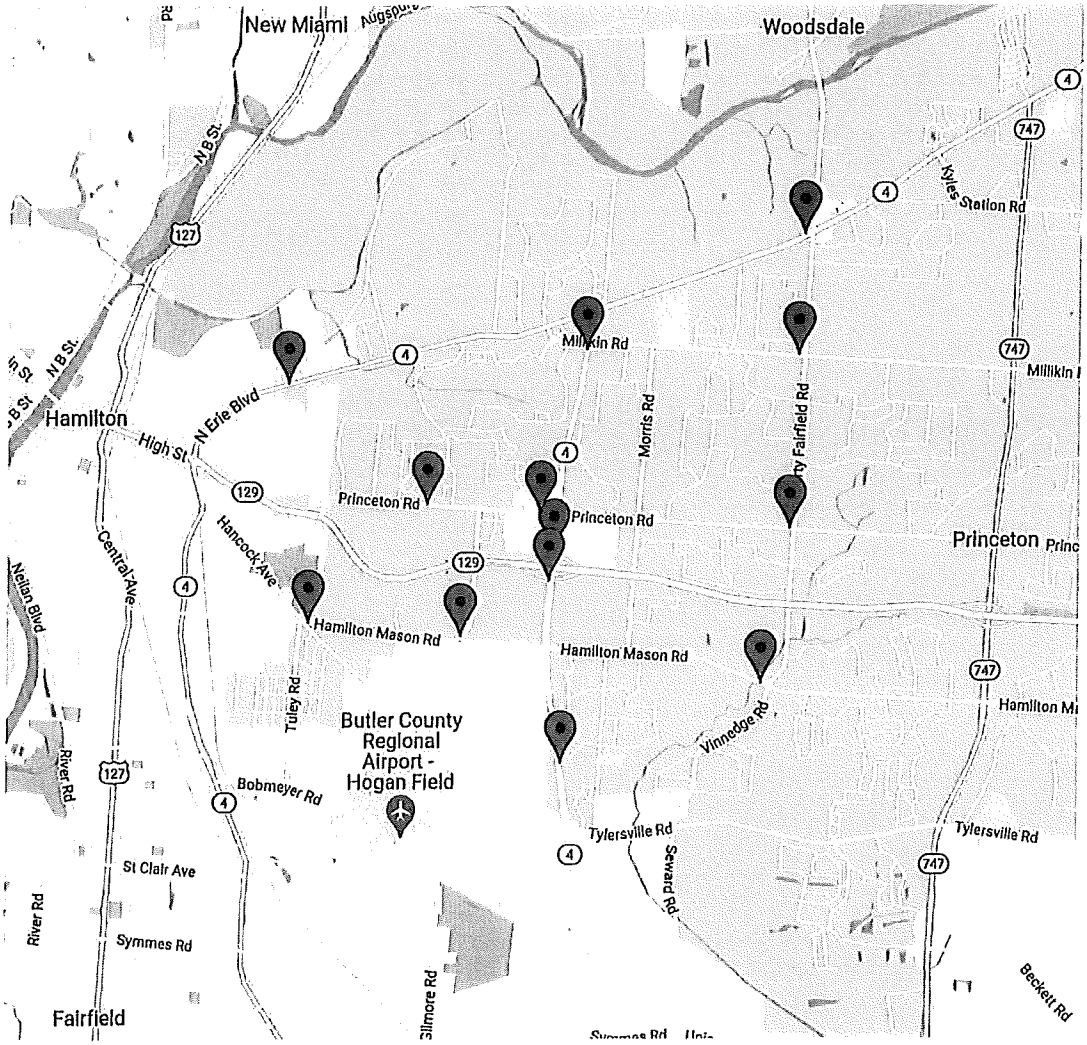
Cost including installation (first year only): **$37,050.00**
Recurring cost: **$32,500.00**

I request the purchase, including installation, and renewal fee for this technology.

Robert Chabali
Chief of Police

Camera Deployment Locations

1. SR 4 at Liberty Fairfield (Southbound)
2. Millikin Rd at SR 4 Bypass (Southbound)
3. Fairgrove Rd. at SR 4 (Southbound)
4. Princeton Rd. between Conastota Dr. and N. Fair Rd. (Eastbound)
5. Princeton Rd. west of SR 4 Bypass (Eastbound)
6. Princeton Rd. at Liberty-Fairfield Rd. (Westbound)
7. Princeton Rd. between SR 4 and Satrielle Way (Eastbound)
8. Princeton Rd. at SR 4 Bypass and 129 (Northbound)
9. Princeton Rd. at SR 4 Bypass and 129 (Southbound)
10. Hancock at Hamilton-Mason Rd. (Eastbound)
11. Gilmore Rd. at Hamilton-Mason Rd (Northbound)
12. Hamilton-Mason at Liberty-Fairfield (Westbound)
13. RT 4 Bypass between Tylersville Rd and Hamilton-Mason Rd. (Northbound)


New Miami
Woodsdale
Hamilton
High St
N Erie Blvd
N B St
Millikin Rd
Morris Rd
Princeton Rd
Princeton
Hamilton Mason Rd
Hancock Ave
Central Ave
Neilan Blvd
Tuley Rd
Butler County Regional Airport - Hogan Field
Bobmeyer Rd
River Rd
St Clair Ave
Symmes Rd
Fairfield
Vinnedge Rd
Tylersville Rd
Seward Rd
Kyles Station Rd
Beckett Rd
127
129
4
747

flock safety

Since 2017, Flock Safety has played a critical role in crime reduction and cases solved:

We provide the evidence for police to solve 185 crimes every day:

- A dozen kidnappings and Amber Alerts solved including in Chamblee, GA, Wichita, KS, and Memphis, TN
- Dozens of homicides solved including in College Park, GA, Fort Worth, TX, Shelby County, TN, and Hemet, CA
- Hundreds of robberies and assaults including in Indianapolis, IN, Trussville, AL, and Redlands, CA
- Thousands of stolen vehicles recovered
- Hundreds of pounds of illegal narcotics seized
- Hundreds of illegal weapons seized

We're seeing crime reduction across the county:

- 34% reduction of crime in Marietta, GA - 2019
- 62% reduction in crime in Cobb County, GA - 2020
- 70% reduction in burglaries in San Marino, CA - 2021
- 22% reduction in crime in Fort Worth's Las Vegas Trail neighborhood
- 30% reduction in Type A crimes in Shelby County, TN
- 46% fewer car break-ins and 25% fewer motor vehicle thefts at a Community Improvement District (CID) that welcomes over 1 million visitors each year
- Up to 90% reduction in mail theft in residential neighborhoods

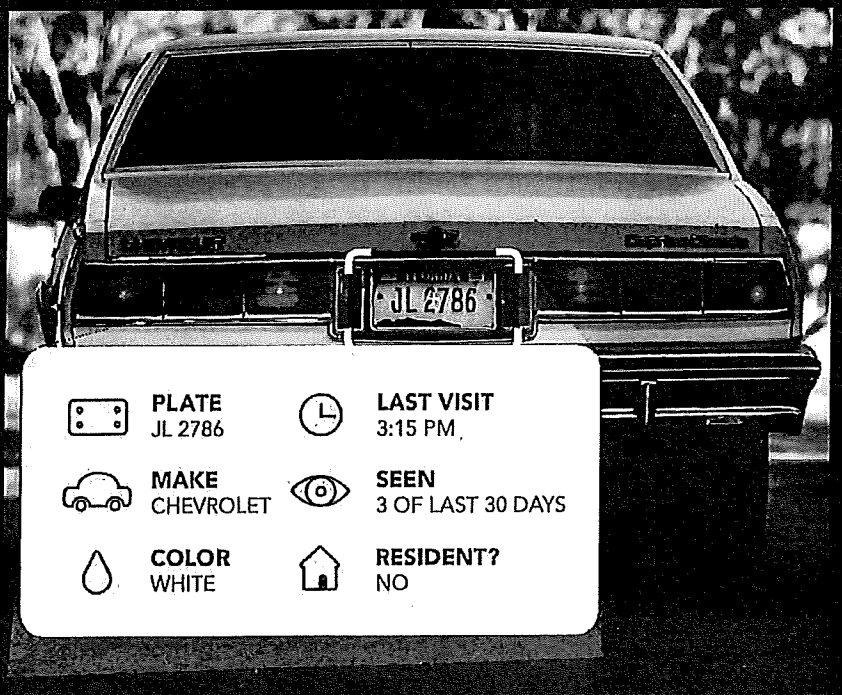
Stolen vehicles recoveries have totaled:

- $1.5 million in Fort Worth, TX
- $1 million+ in Memorial Villages, TX
- $1 million+ in Hemet, CA
- $1.9 million+ in Wichita, KS

flock safety

flocksafety.com
866.831.5326

Your partner in fighting crime



Protecting your jurisdiction is of the utmost importance. Thank you for considering Flock Safety's technology system as part of your comprehensive strategy to protect your city, citizens, and officers. We are more than just a camera company - we are a crime-fighting technology company with a mission to eliminate non-violent crime in the United States.

What makes Flock Safety's technology different

PUBLIC & PRIVATE PARTNERSHIPS

Thousands of communities use privately funded Flock Safety cameras throughout the country, which provides a huge benefit to local law enforcement as they can have access to those cameras without having to pay for them.

VEHICLE FINGERPRINT™ TECHNOLOGY

Capture far more than just license plates. Allow your investigators to search footage by vehicle type, make, and color; identify the state of a license plate; capture temporary plates, paper plates, and vehicles without plates. Our cameras also capture two (2) lanes of traffic traveling up to 100 MPH with a single camera.

INFRASTRUCTURE FREE

Use cameras that are solar powered and include LTE internet connectivity (unlimited use included in cost), so they can be rapidly deployed virtually anywhere.

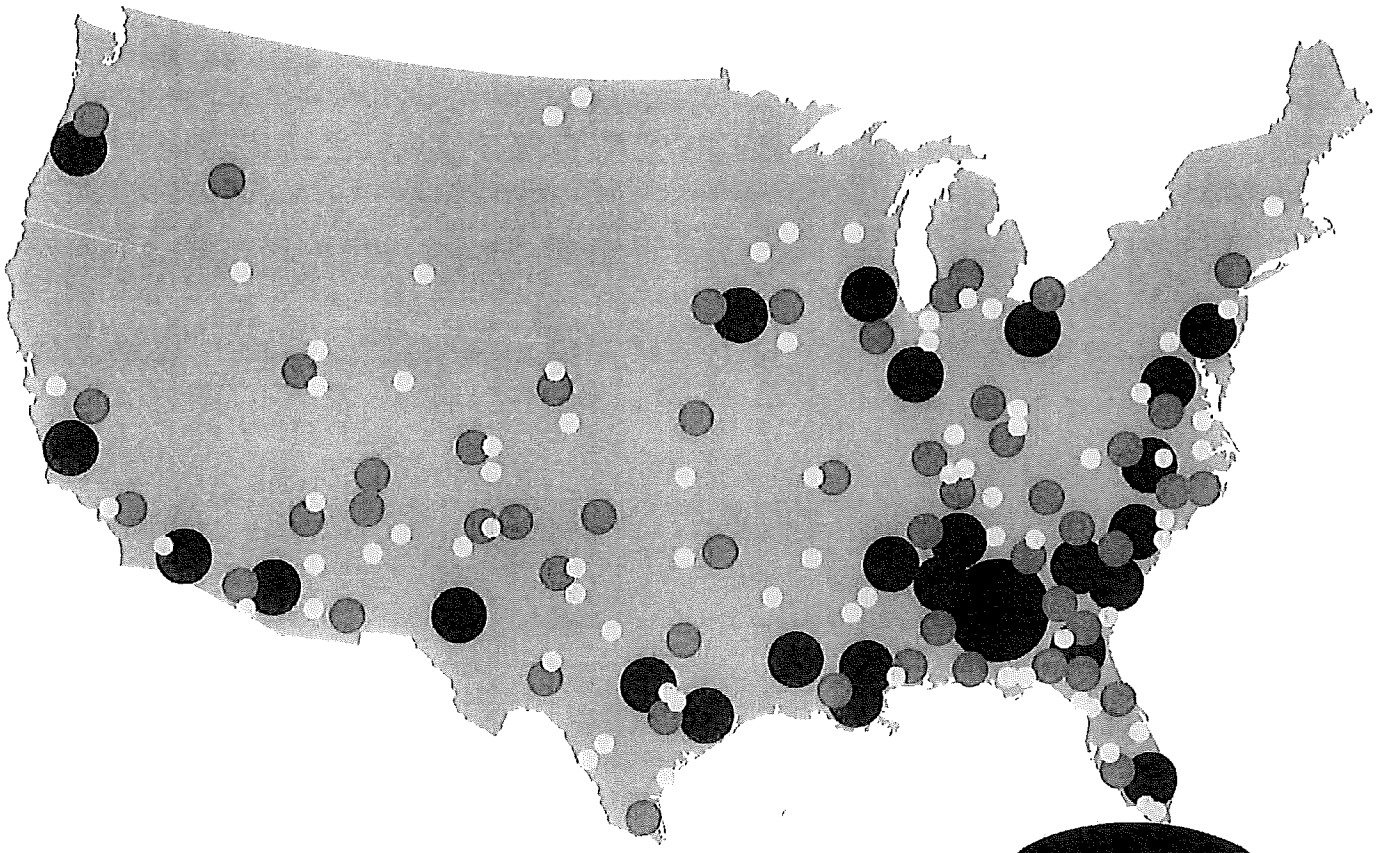
SIMPLE & AFFORDABLE

Our cameras cost $2,500 per camera per year which includes hardware, software, solar power, LTE connectivity, unlimited users, and unlimited data storage.

We look forward to hearing from you and hope you will join the "flock"!

Thank you,

flock safety



500
Police departments

1000+
US cities

120
Stolen vehicle reads/hr

Flock Safety's technology includes fixed license plate reading cameras and software for unlimited users to access footage and receive hotlist notifications.

Proposal Summary

Police departments need a scalable solution to increase clearance rates and deter crime. The Flock Safety camera sees like a detective to make actionable evidence available when needed that is easily searchable by vehicle type, make, model, color, timeframe, or plate details. We deliver this detail through AI and Machine Learning technology that scans each image for distinguishing features, instead of traditional metal plates. This means we can also detect vehicles with no plates, temporary plates, dirty/covered plates, and even get accurate state detection.

30% ▲

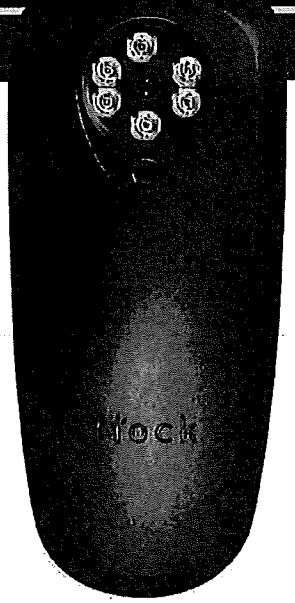
Our solution **captures 30% more plates** than our leading competitor, according to a side-by-side study done by LASD in 2019, largely due to using AI and Machine Learning to analyze the entire vehicle profile, instead of legacy Infrared based technology.

34% ▼

In April 2019, Marietta Police Department released a study that shows they experienced a **34% reduction in calls for service** by targeting crime hot spots throughout the city with Flock Safety cameras.

60% ▼

In October 2019, Cobb County Police Department released a study based on their installation of 13 Flock Safety cameras in March. Over the six month period, Cobb police reported a **60% reduction in overall crime** by focusing on the beat with the highest



Company Overview

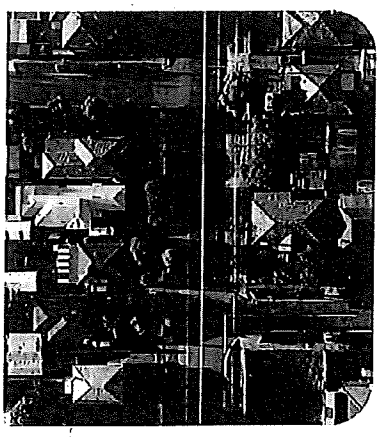
Flock Safety's mission is to eliminate non-violent crime. This is possible with city-wide coverage of automatic license plate readers (ALPRs) for both public safety organizations and private citizens. When a crime occurs, Flock Safety cameras deliver the actionable evidence you need to make an arrest.

Our company is headquartered in Atlanta, Georgia. Flock Safety

camera systems live in over 700 cities in 38 states and over 300 police departments. With an average of 120 Hot List notifications sent an hour with jurisdictions throughout the U.S., our team is helping agencies solve and prevent crime every minute.

Customer Results

Police departments need a scalable solution to increase clearance rates and deter crime. The Flock Safety camera sees like a detective to make actionable evidence available when needed that is easily searchable by vehicle type, make, model, color, timeframe, or plate details. We deliver this detail through AI and Machine Learning technology that scans each image for distinguishing features, instead of traditional metal plates. This means we can also detect vehicles with no plates, temporary plates, dirty/covered plates, and even get accurate state detection.



JERSEY VILLAGE, TEXAS

A camera on every street to create a virtual gate

Within one week, Flock Safety cameras notified officers of two vehicles on the NCIC Hot List. During the seizure of one of the vehicles, a wanted murderer in the state of Louisiana was arrested. Both vehicles were returned to their owners.

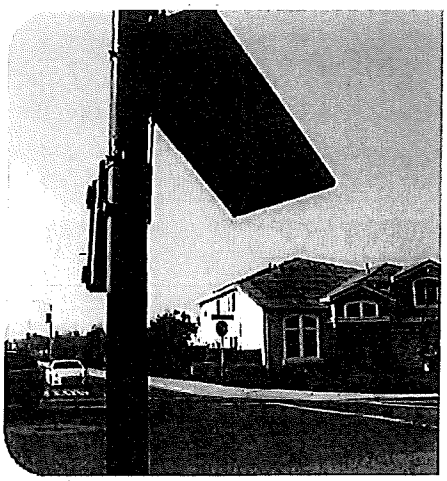
- Location: Houston suburb
- Flock Cameras: 50+
- Residents: 8,000
- Installation: Two months from purchase

MARIETTA, GEORGIA

34% reduction in calls for service in targeted hotspots

Cameras within the city led to the arrest of a suspect who allegedly brutally attacked a woman. Officers were able to locate and arrest the suspect using Flock cameras after weeks of the suspect being on-the-run.

- Location: Atlanta suburb, in Cobb County, Georgia
- Flock Cameras: 70 and growing within the county (30 police and 40 private cameras)
- Residents: 65,000 in Marietta
- Installation: Two months from purchase for first hotspot created



COBB COUNTY, GEORGIA

Containment strategy in highest crime beat of the county

Cobb County Police Department utilized 35 Flock cameras in 2 containment zones in their highest crime beats to reduce crime by over 60%.

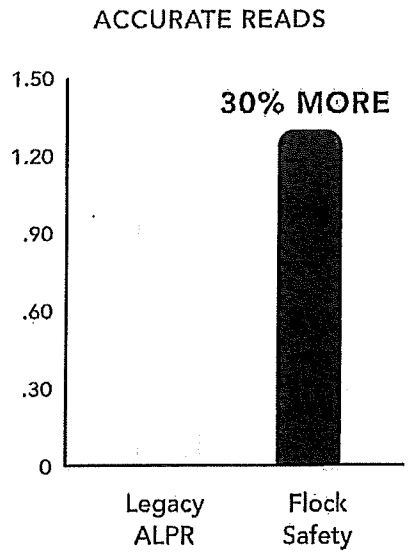
- Location: Cobb County, GA is just outside of Atlanta
- Flock Cameras: 35 for PD, over 100 including private sector cameras
- Residents: 750,000 in Cobb County
- Installation: Phased approach
- Contact: Deputy Chief Stuart Vanhoozer at stuart.vanhoozer@cobbcounty.org or (404) 375-1926

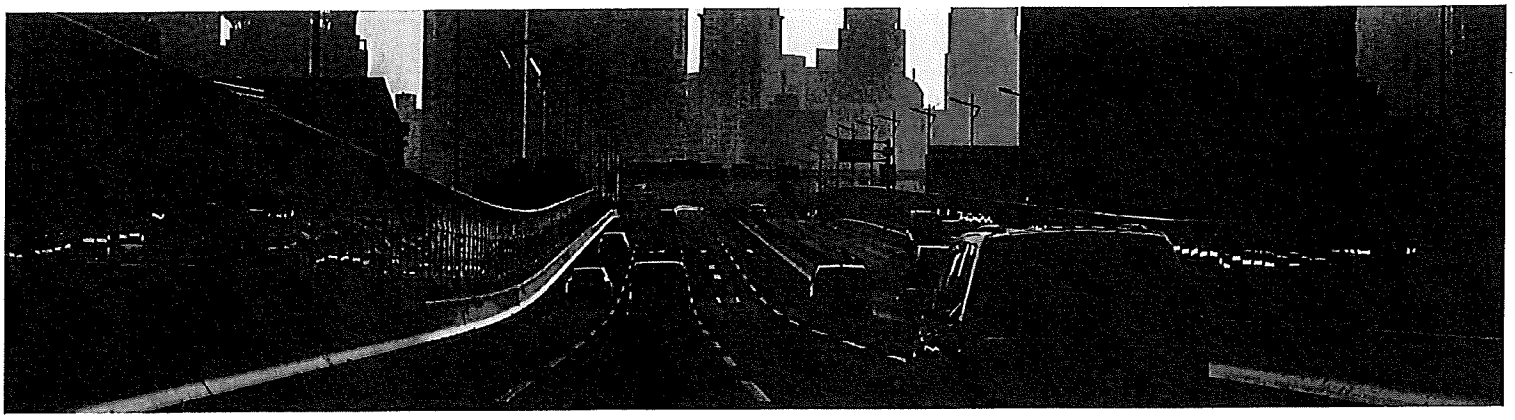
LOS ANGELES, CALIFORNIA

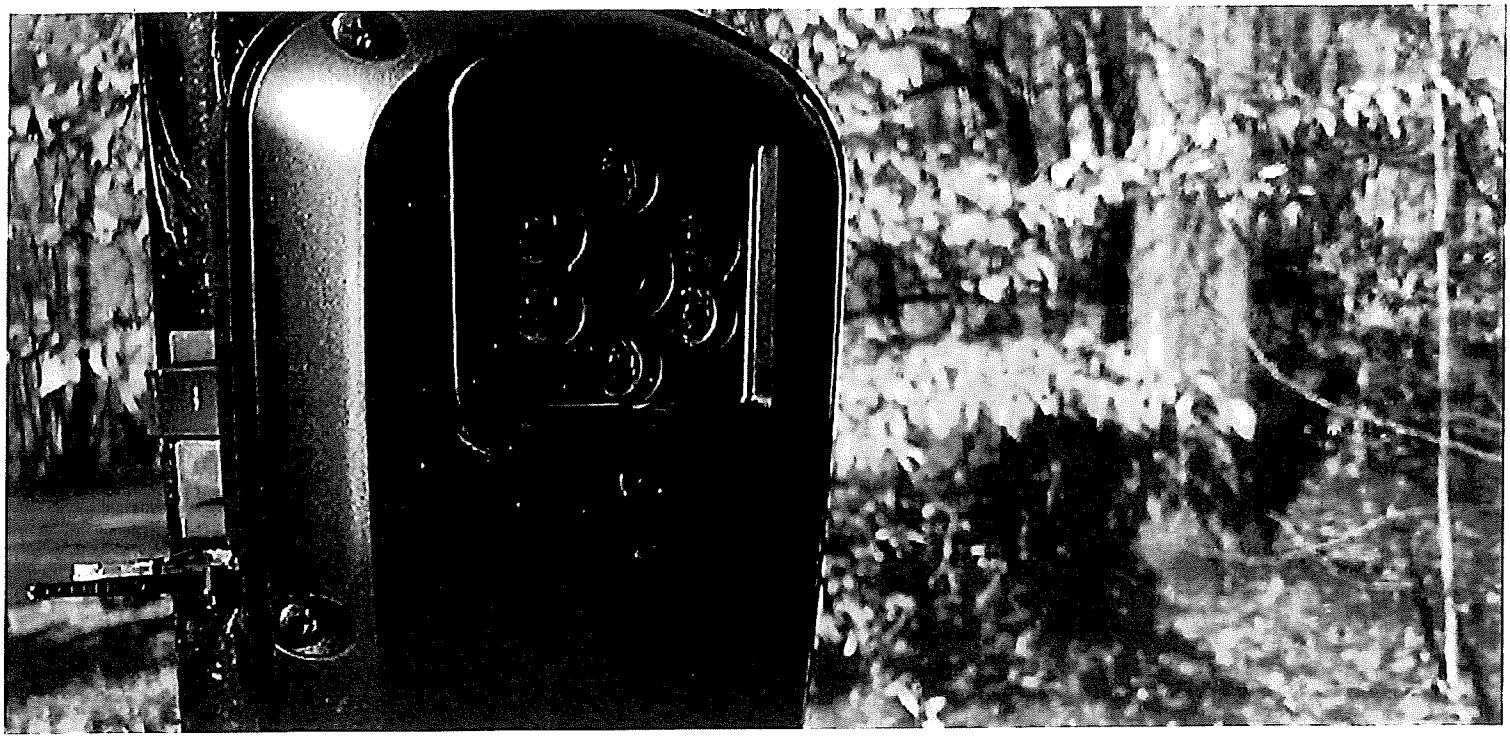
Sheriff's Department performs detection accuracy test

Los Angeles Sheriff's Department performed a head-to-head test of the Flock Safety camera versus a legacy ALPR solution.

- The results showed that the Flock Safety camera captures 30% more vehicle images and provides more accurate reads than traditional cameras triggered by infrared technology.
- Conducted in limited lighting from 2:00 AM to 8:00 AM, and from 11:00 PM to 6:00 AM.
- Causes for missed vehicles and/or misread plates were associated with the amount of reflectivity of the plate (older/dirtier tags, and dealer provided paper plates).







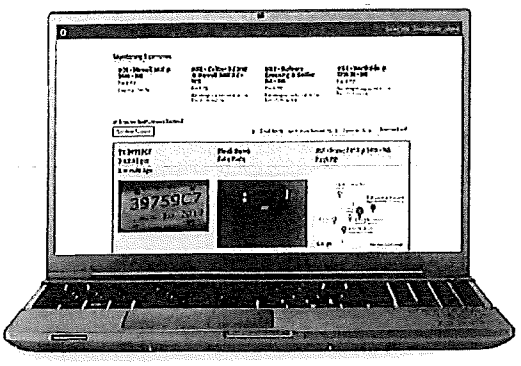
Product

Flock Safety Automatic License Plate Reading (ALPR) cameras do not just identify the plate seen, but all the objects within the frame. Even if the vehicle does not have a tag, the image can be captured for review.

The user interface is a simple search with unlimited user licenses. Within the software component, law enforcement can receive hotlist alerts and create custom alerts for plates under your investigation.

SOFTWARE USER INTERFACE

Included at no additional cost with unlimited user licenses. Receive alerts to help detect crime and search footage to access evidence — with any internet-connected device (based on user credentials that are easily managed/approved by admin).

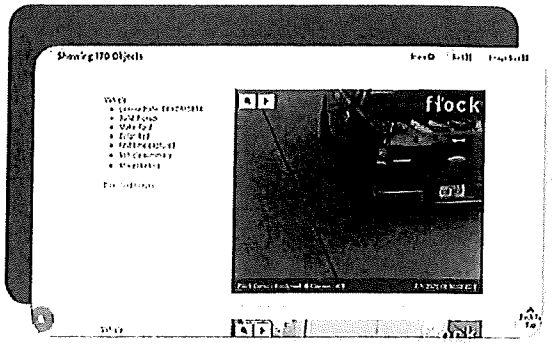


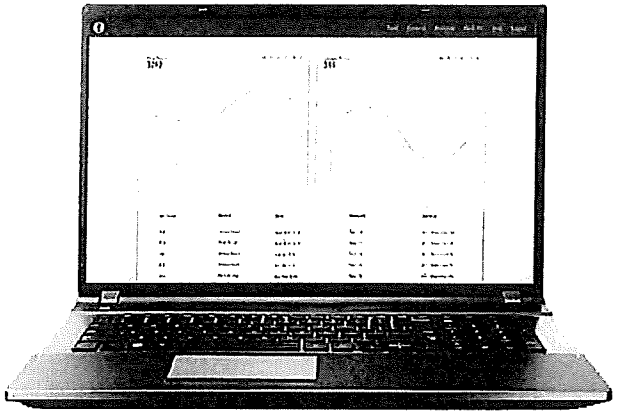
Detect Crime

- Connected to the NCIC Hot List & CJIS compliant
- State detection to ensure quality alerts
- Hotlist alerts (includes privately owned cameras in your jurisdiction)
- Create custom alerts for tags under investigation with your organization
- Filter notifications by reason codes (exclude sex offenders, include stolen plates, etc.)
- Email and SMS alerts to users
- Audible and visual alerts

Access Evidence

- Filter search by specific camera location
- Capture vehicles regardless of plate type (paper, no plate, etc.)
- Search results with vehicle summary in multiple formats
- Filter by Vehicle Fingerprint™
  - Date and time
  - Vehicle Characteristics
    - Plate (partial/full)
    - Plate Type (in state, out of state, temporary tag)
    - Build & Color
    - Resident status
    - Location/Date/Time





Insights

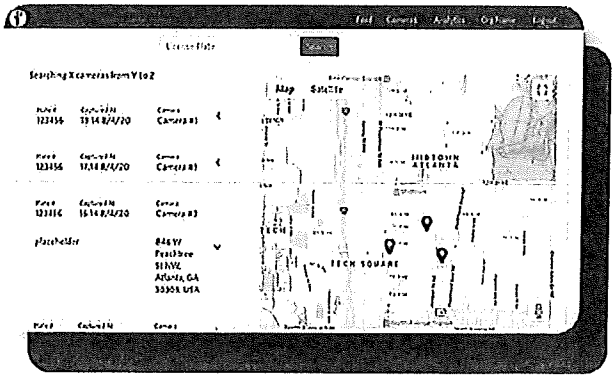
Give city council an ROI report

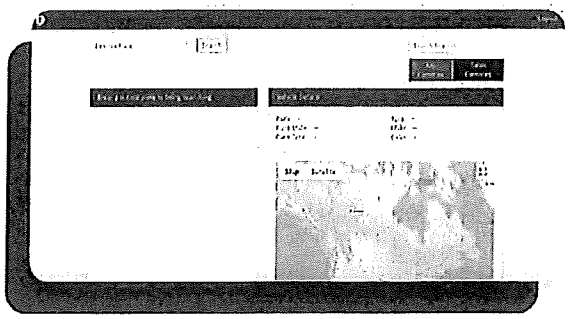
- Discover crime and traffic patterns
- Prioritize changes by greatest impact
- Change your community for the better

Lookup

Search plates across your jurisdiction

- "I have the plate where is the car?"
- Designed to search all cameras, all time
- Get a full view of all activity tied to one vehicle in your network





Talon

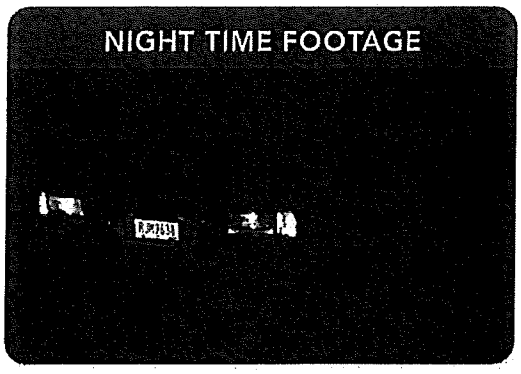
A new way to solve cross-jurisdiction crimes

- New privacy setting (National + State search)
- 500M monthly reads
- Attached to "Lookup" experience

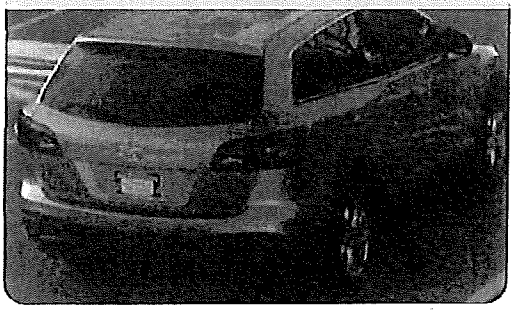
Peformance

DAY TIME FOOTAGE

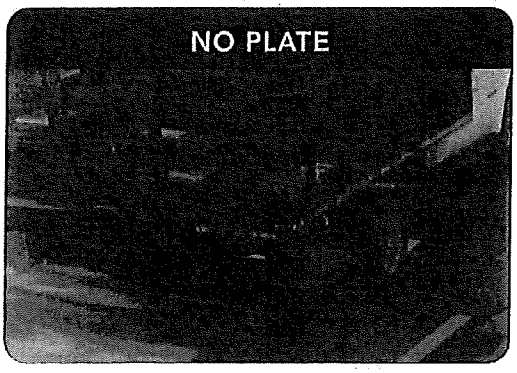
NIGHT TIME FOOTAGE



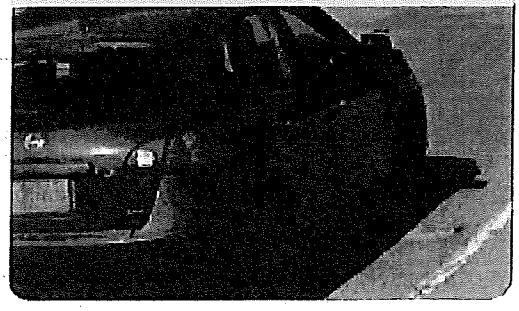
TEMPORARY PLATE



NO PLATE



COVERED PLATE



TWO LANES OF TRAFFIC

CAMERA SPECIFICATIONS

Design
Dimensions: 8.75" x 3"
Weight: 3 lbs
IP65 Waterproof

Power
14Ah Battery
30W Solar Panel (14" x 21")
AC Power (5 ft. range)

Data
16GB local storage, ~2 weeks

Image
5MP Image Sensor

Motion
Passive Infrared Motion Detection

Connectivity
Embedded Cellular LTE Connection
Cellular service provider depends on area

Production
Designed & manufactured in the U.S.

Night Vision
850nm Custom IR Array

Cloud Storage
30 days storage (Amazon Web Services)
Accessible via secure website
Images can be downloaded and stored by department

CAMERA PERFORMANCE

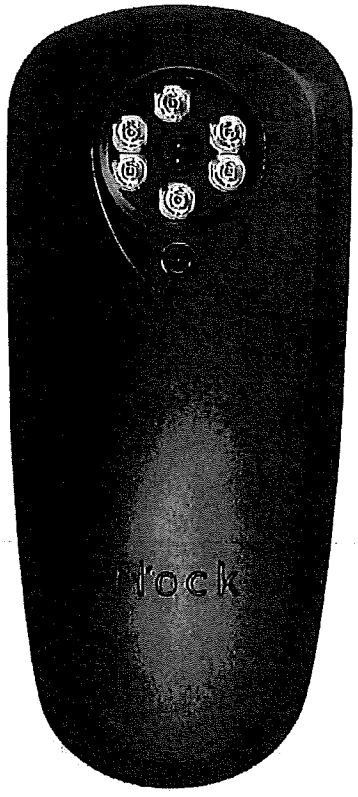
Traffic
NCIC and Custom Alert Notifications
- Average of 10-15 seconds

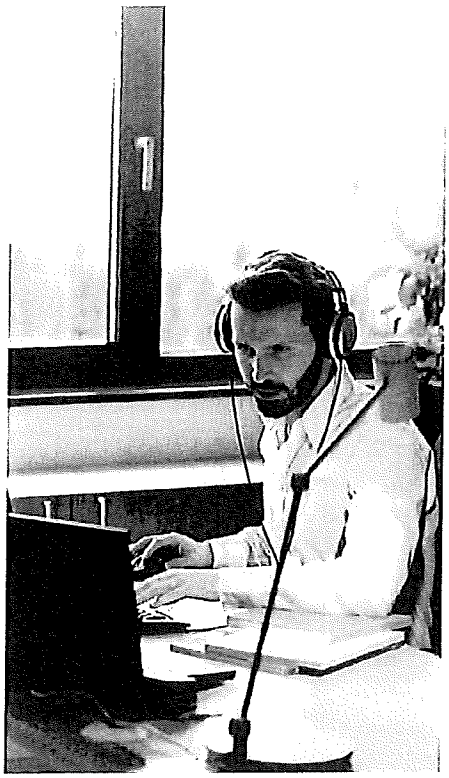
Includes time, location, plate, and vehicle image
Includes state specific alerts based on image

Power Source
100-240 VAC <1 amp
60 W Solar
11-14 Volt

Processing Power
1.4GHz
64-bit quad-core CPU

Image Capture
30-50 ft from vehicles
Up to 2 lanes of traffic per camera
Date and time with camera location
Plate (state, partial, paper, and none)
Vehicle details (Make, type, and color)





Training, Ongoing Support & Timeline

New customers will first get connected with their dedicated Onboarding Specialist who will spearhead the installation project to completion. Once cameras are successfully capturing footage, customers get introduced to their dedicated Market Manager. This person serves as the main point of reference for all things Flock Safety (training, setup questions, etc). In addition, the Flock Safety Support team monitors the **support@flocksafety.com** inbox Monday through Friday, 8:00 AM to 5:00 PM EST.

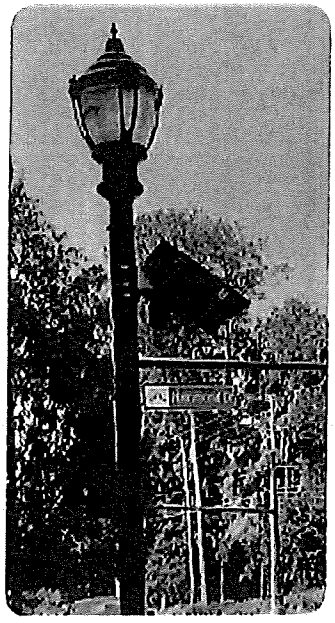
SAFETY-AS-A-SERVICE

- Regular software updates at no additional cost
- Camera maintenance is included in the subscription
- Unlimited users for hotlist integration and alerts, and camera footage search

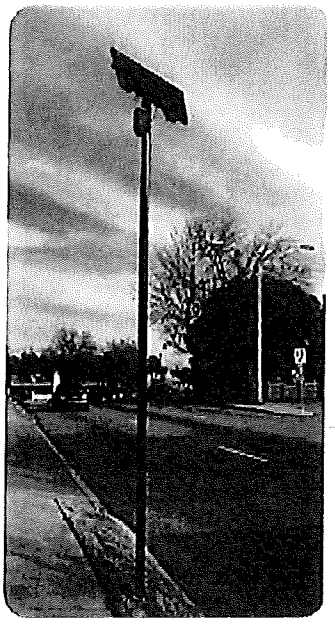
INSTALLATION & CAMERA LOCATIONS

The average installation is to 6-8 weeks. Camera locations and installation timing is coordinated by the Flock Safety Customer Support team.

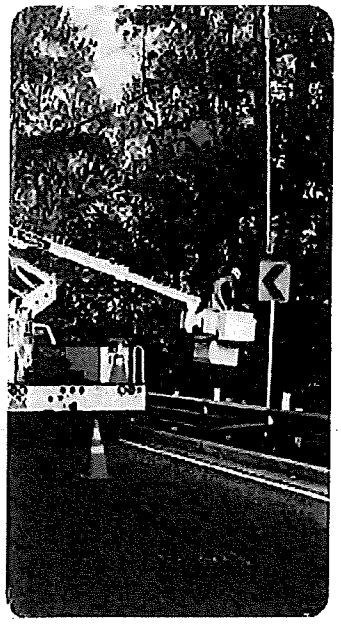
City intersection
Solar & existing pole



Entrance to Hotel
Solar & Flock 14 foot pole



City Foot Traffic Street
Electric & existing pole



Install Process Guide

TERMS, CONDITIONS, & SERVICE LEVEL AGREEMENT INFORMATION

For the complete list of Terms & Service, please visit **https://www.flocksafety.com/legal.**

WARRANTY

- All Flock products are under warranty for the duration of the Customer's contract.
- Flock cameras have built-in alarms to alert us if a camera is not performing at optimal standards. In the event of a camera performance issues, maintenance teams will be deployed at no additional cost.
- In the event the Flock camera is physically damaged or stolen, the first camera replacement will be made by Flock at not additional cost. A reassessment of camera location will be made at that time to deter further issues.
- In the unlikely case that an additional replacement camera is needed, the customer will be responsible for the $300 cost.
- Flock reserves the right to refuse or delay replacement or its choice of remedy for a Defect until after it has inspected and tested the affected Unit; provided that such inspection and test shall occur within 72 hours after the Agency notifies the Flock of defect.

ALL TRAFFIC SOLUTIONS

ATS PRODUCT WARRANTIES

All Traffic Solutions is committed to providing the best value in all our products. To underscore this ongoing commitment, all ATS-manufactured signs purchased on or after January 1, 2019, come standard with a 3-year manufacturer's warranty. Products eligible for the 3-year manufacturer's warranty are Shield 12 and Shield 15 radar speed signs, SpeedAlert 18 and SpeedAlert 24 radar message displays and InstAlert 18 and InstAlert 24 variable message signs.

We also offer the ATS Premier Care Plan with your current ATS TraffiCloud® Remote Management Software subscription.

WARRANTY COMPARISON

ATS Premier Care Plan & ATS 3-Year Manufacturer's Warranty

All sign batteries are discounted under the Premier Care Plan. All accessories are discounted under Premier Care except:

- Trailer-related items
- Laptops and tablets
- Solar panels
- Carrying cases

Feature	Premier Care Plan	ATS 3-Year Manufacturer's Warranty
Hardware defect repair	Entire product lifespan, provided the product has an active Premiere Care subscription	Three years from the date of delivery
Dedicated Customer Support Center	Comprehensive hardware and software troubleshooting support	Troubleshooting to determine hardware defects
Remote diagnostics by ATS Support Team	Remote access to signs for performing comprehensive hardware and software diagnostics	Not included
Software and firmware updates	Included	Not included
Return from ATS repair center *(manufacturer defect repairs only)*	No charge	No charge
Shipping to and from ATS repair center (non-manufacturer defect repair)	Customer pays shipping	Customer pays shipping
Damage resulting from misuse, abuse, or using the product in ways it was not intended	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Vandalism	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Battery and accessory discounts	50% off the regular price	No discounts
LFP battery replacement	1 year + 50% off additional or replacement batteries	1 year
SLA battery replacement	1 year + 50% off additional or replacement batteries	3 months
Trailer battery	1 year	6 months
Power case batteries *(Must be sent back to ATS for repair)*	1 year + 50% off replacement batteries	6 months
Accidents	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Damage due to incorrect installation or operation	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Acts of nature	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Normal wear and tear such as frayed cords or cables, broken connectors, scratched or broken enclosures	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply

CASE STUDY

When every second matters, choose Flock Safety

Chamblee, GA Police Recover Kidnapped Baby in Five Hours, Thanks to Flock Safety

Background

Chamblee Police department has been a Flock Safety customer for 2 years. They have 55 LPRs deployed across their 7.5 square mile city.

The Situation

On Saturday, 8/29, Assistant Chief Mike Beller was planning to take his son to an amusement park. But then he got an email that said, "Kidnapping. Stranger on stranger abduction."

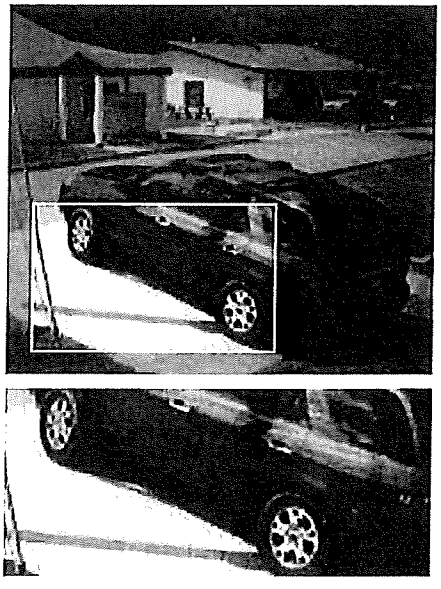
AC Beller immediately called the FBI - Child Abduction Rapid Deployment team, as stranger kidnappings happen less than 5% of the time and every second matters.

The Solution

AC Beller then called his top Flock Safety vehicle analyst, Sgt. Ric Barber, who was on vacation. Sgt. Barber was driving back from a trip to the mountains when he pulled over, got out his laptop and started searching.

Sgt. Barber was given surveillance footage of the suspect vehicle, and it appeared to be a maroon Acura MDX. Sgt. Barber noticed that the suspect vehicle did not have a license plate, but did notice that car had a sunroof, roof rack, tinted windows, and a mismatched left rear wheel.

Sgt. Barber searched through the Flock Safety footage filtering on maroon, Acuras with no license plate. He was able to identify a similar maroon Acura MDX with the same unique features (sunroof, tinted windows, roof rack, mismatched left rear wheel) driving thru



The suspect vehicle had a sunroof, roof rack, tinted windows, and a mismatched left rear wheel, which helped police identify it.

Chamblee four hours earlier that same day. And that vehicle had a license plate.

Because Chamblee police share their LPRs with other law enforcement agencies, and vice versa, Sgt. Barber was able to perform a license plate search in the local network and noticed that the suspect vehicle was only ever seen in Chamblee and in Carrollton, GA (about 70 miles away).

Sgt. Barber gave this lead to AC Beller. And AC Beller got an alert that the suspect vehicle was driving back toward Carrollton, GA. At that time, AC Beller was given an address for the vehicle, and he coordinated with GA State Patrol to set up a stakeout location at that address.

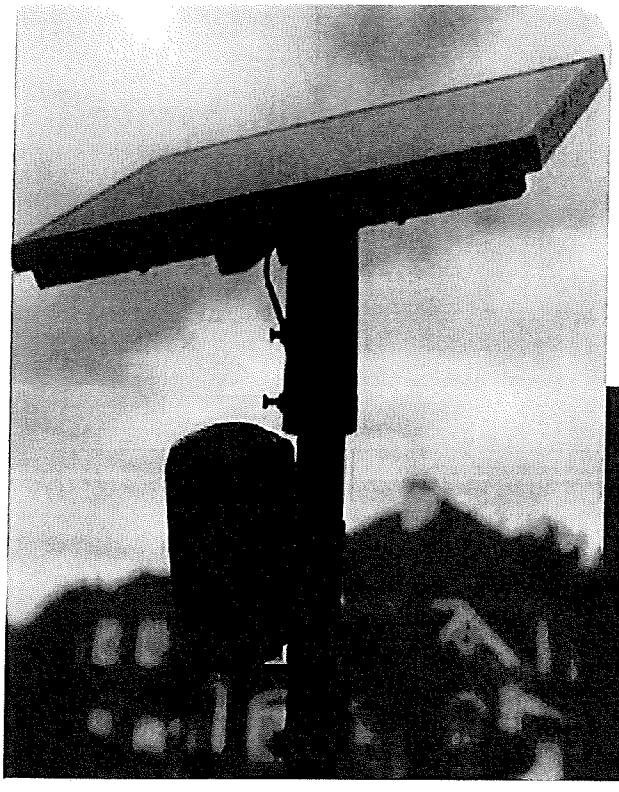
Results

AC Beller arrived on the scene, spotted the suspect vehicle, and safely performed a felony stop. In the backseat of the vehicle was the kidnapped baby. AC Beller was able to return the child to the mother back in Chamblee, and the child was completely unharmed.

"This has been our most successful anti-crime initiative we have ever done in my 23 years with the department."

ASST. CHIEF MIKE BELLER

When every second matters, you need the best technology available to help you solve crime.



150+
ARRESTS FROM STOLEN VEHICLES

2
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1
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