

flock safety

# Raven™

Audio Detection Device



## Capture more evidence than just shell casings

Over 90 US law enforcement agencies use Flock Safety's integrated audio detection and ALPR to combat gun violence in their communities.

# THE CURRENT CHALLENGE

## Gunshot detection alone is not enough to combat rising gun violence

Traditional single-point gunshot detection uses triangulation to direct first responders to the scene of a shooting. This helps locate victims faster, which ultimately saves lives. However, this technology's lack of contextual evidence prevents law enforcement from apprehending repeat offenders. Here's why:



### No suspect vehicle information

80% of crimes are committed with vehicles.



### Slow ballistics analysis

If shell casings are recovered, forensic analysis takes hours, if not days, to complete.



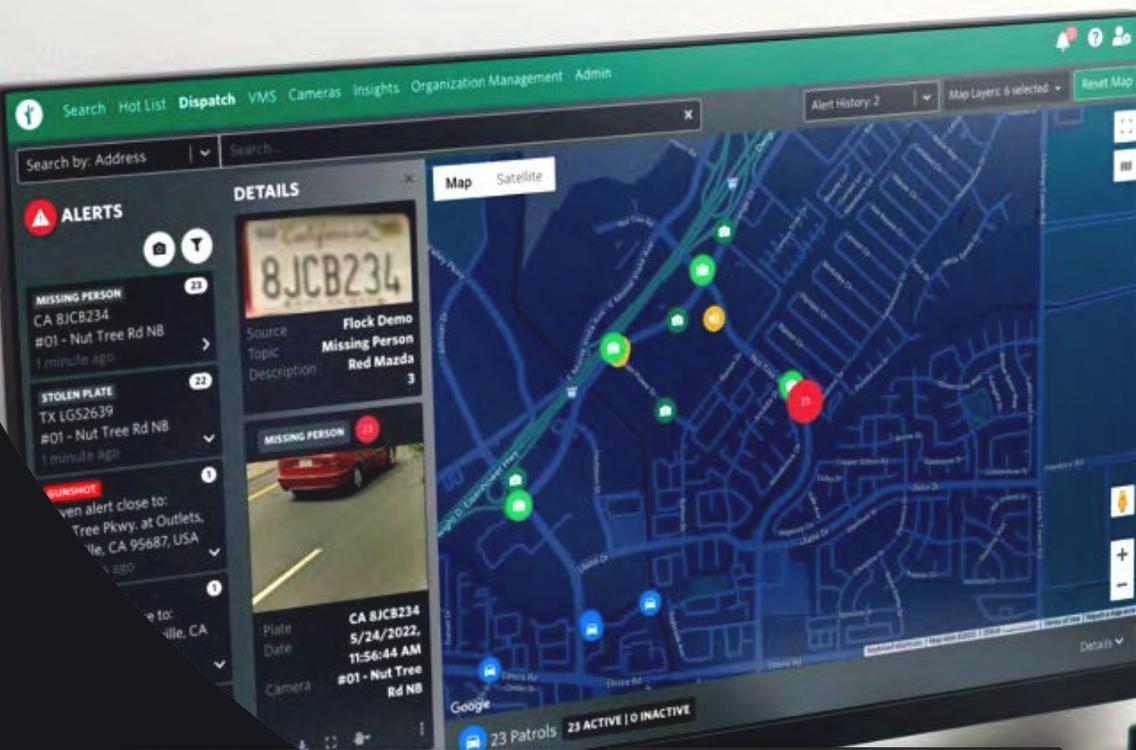


# THE FLOCK SAFETY DIFFERENCE

## Get real-time, contextual evidence for gun crime with ALPR and integrated audio detection

Raven is an audio detection device that integrates with Flock Safety Falcon™ ALPR cameras. Raven recognizes gunshots and uses triangulation to locate the source. Once machine learning identifies the location of the sound, it triggers the nearest ALPR camera to capture vehicle evidence.

Now, investigators can get from "shots fired" to a license plate and Vehicle Fingerprint™ description in real-time. All of these intelligence points are available to help solve crime using the Flock Safety software platform.



**GUNSHOT** 1

Raven alert close to:  
Nut Tree Pkwy. at Outlets,  
Vacaville, CA 95687, USA  
2 minutes ago

**GUNSHOT** 1

Raven alert close to:  
1 Quality Dr, Vacaville, CA  
95688, USA  
2 minutes ago





## Here's how it works in action:

Crime >	Detect >	Decode >	Deliver >
<b>Drive-by Shooting</b>	<b>Raven</b> hears a gunshot and locates the source.  <b>Falcon</b> captures vehicular evidence in the area.	<b>Machine Learning</b> logs the gunshot sound as evidence and scans nearby vehicle images for plate number, make, body type, color, and other unique features like bumper stickers, bike racks, and window decals.	<b>Hot List</b> Alert sent to Dispatch and Patrol summarizing incident and suspect vehicle details, including plate number and/or Vehicle Fingerprint description.  Detectives can access and download evidence in <b>Search</b> experience and push it to Axon's Evidence.com for streamlined case management.



“The reason [Flock Safety's Raven] was a good choice for us, clearly is the unbelievable, undeniable effect of the combined LPR program.”

**Stuart VanHoozer**

Deputy Chief of Police  
Cobb County, GA

**70%**

Cobb County Police reduced crime in their jurisdiction by 70% with the help of Flock Safety





## Fast, scalable deployment that matches your city layout



Raven makes it faster and more affordable for you to find comprehensive investigative leads across your jurisdiction.

### Infrastructure-Free

The Raven attaches to the Falcon pole and takes advantage of the existing CPU and LTE from your existing Flock Safety ALPR.

### Affordable

Instead of broad, square-mile coverage, Flock Safety can deploy 1/4 mile at a time -- this is the footprint of a single neighborhood, park, or commercial property.

1 Square Mile	\$25,000
1/2 Square Mile	\$15,000
1/4 Square Mile	\$8,500

## The future of Raven: more than just gunshots

Raven makes it faster and more affordable for you to find comprehensive investigative leads across your jurisdiction.



### Gunshots

Homicide, drive-by-shootings



### Screeching Tires

Street racing, reckless driving, car crashes



### Glass Breaking

Property crime, burglary

For more information, contact us at

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