

Public Safety Technology Development

San Pablo Police Department





Has Technology Been Effective?

Is this cost effective?

Community Feedback?

How will we use future Technology?



San Pablo Police Department Crime Reduction Strategy

Progressive Training



Community Policing



Technology



COMMUNITY PROGRAMS

Community Police
Academy

CERT

LISTOS

Parent Project

Loving Solutions

School Resource Officer

G.R.E.A.T. Program



In 2011, the San Pablo Police Department began implementing public safety technology: surveillance Cameras, automated license plate technology (ALPR), and gun shot detection software (ShotSpotter) to impact Public Safety.

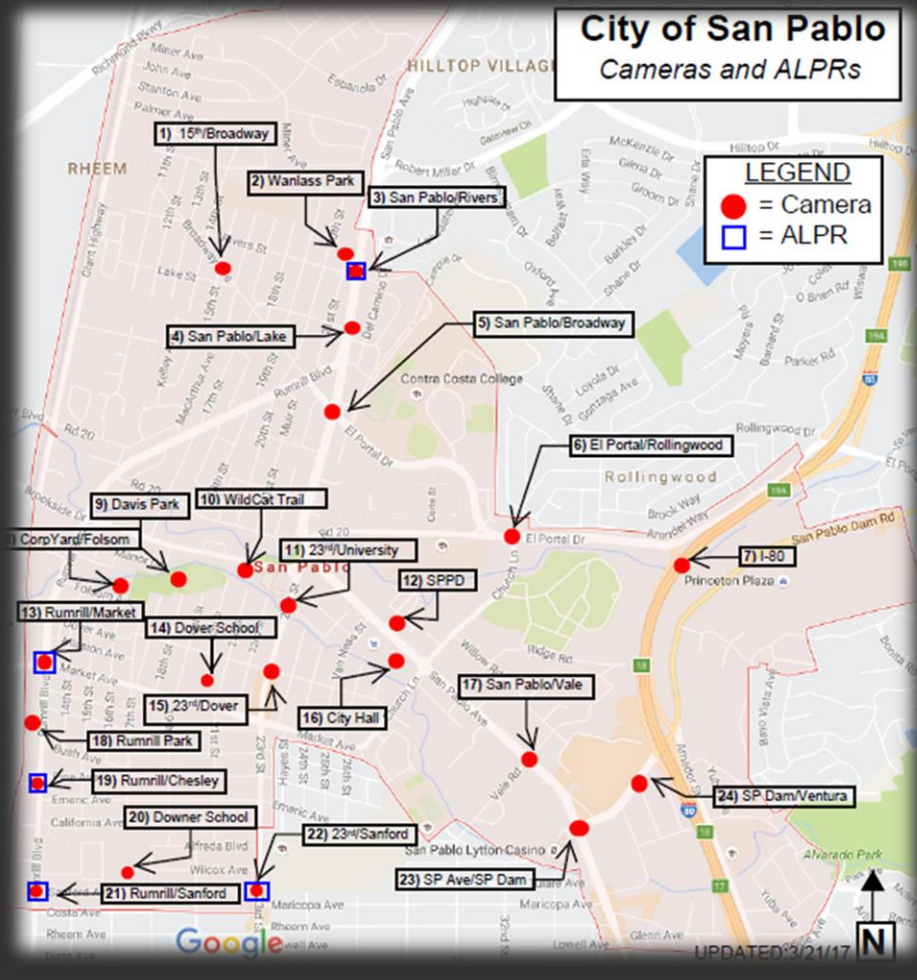


Camera System 2011-2017

Situational Awareness Cameras: 134

ALPR:
16

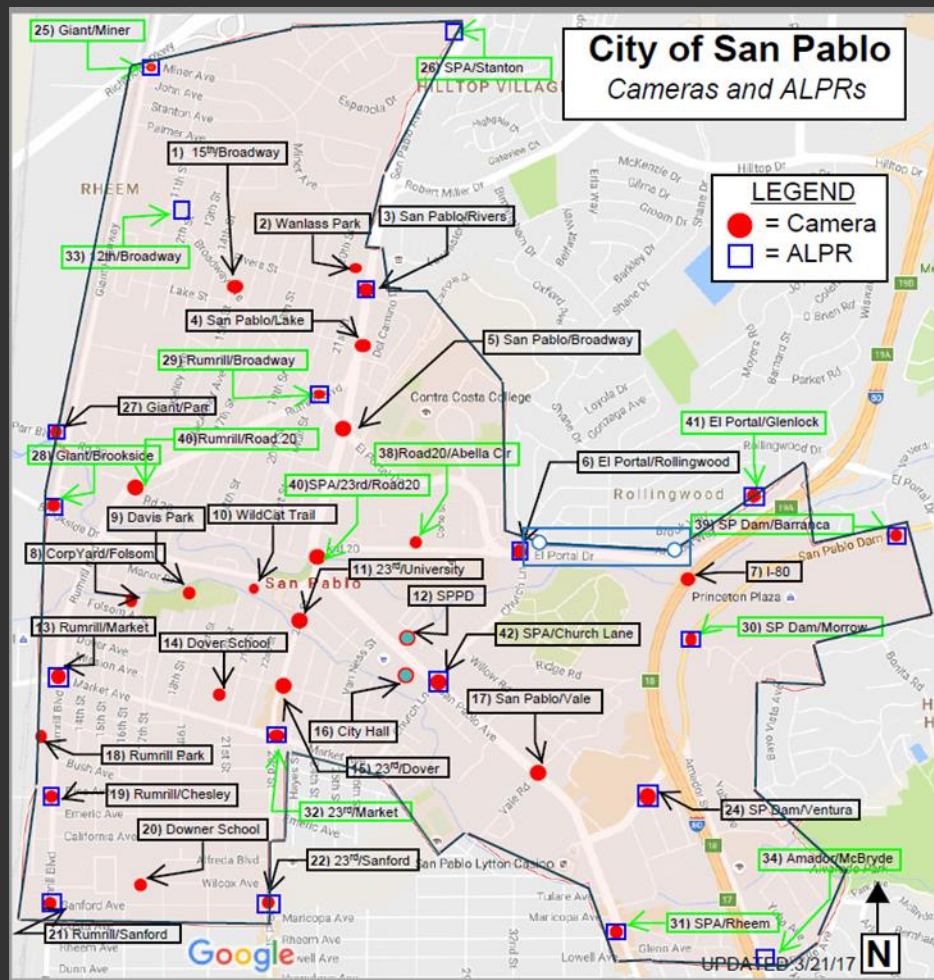
* In 2018, City Council Approved plan to enhance technology program.



Camera System 2019

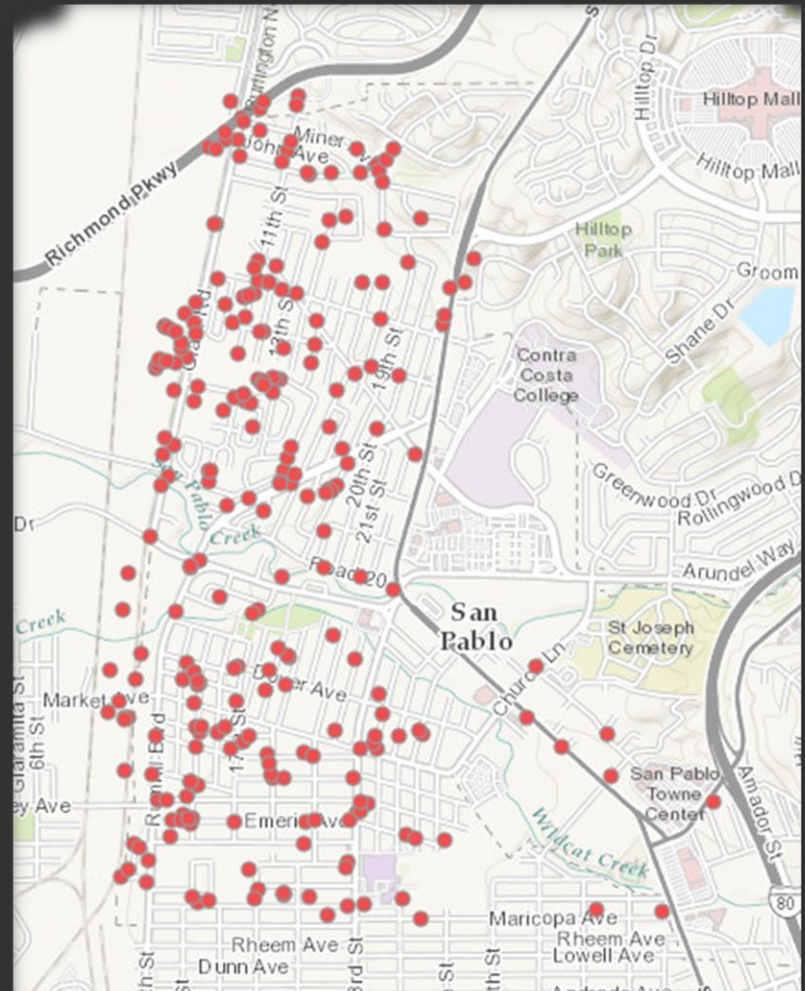
Situational Awareness Cameras:
206

ALPR:
72



2012

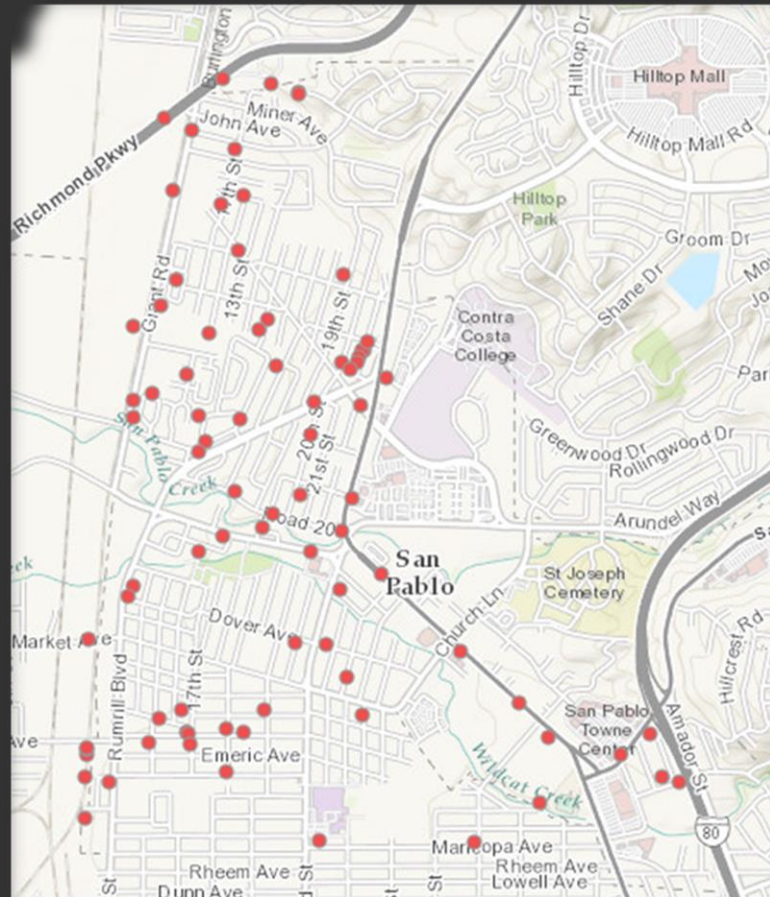
725 Incidents of
Gunfire



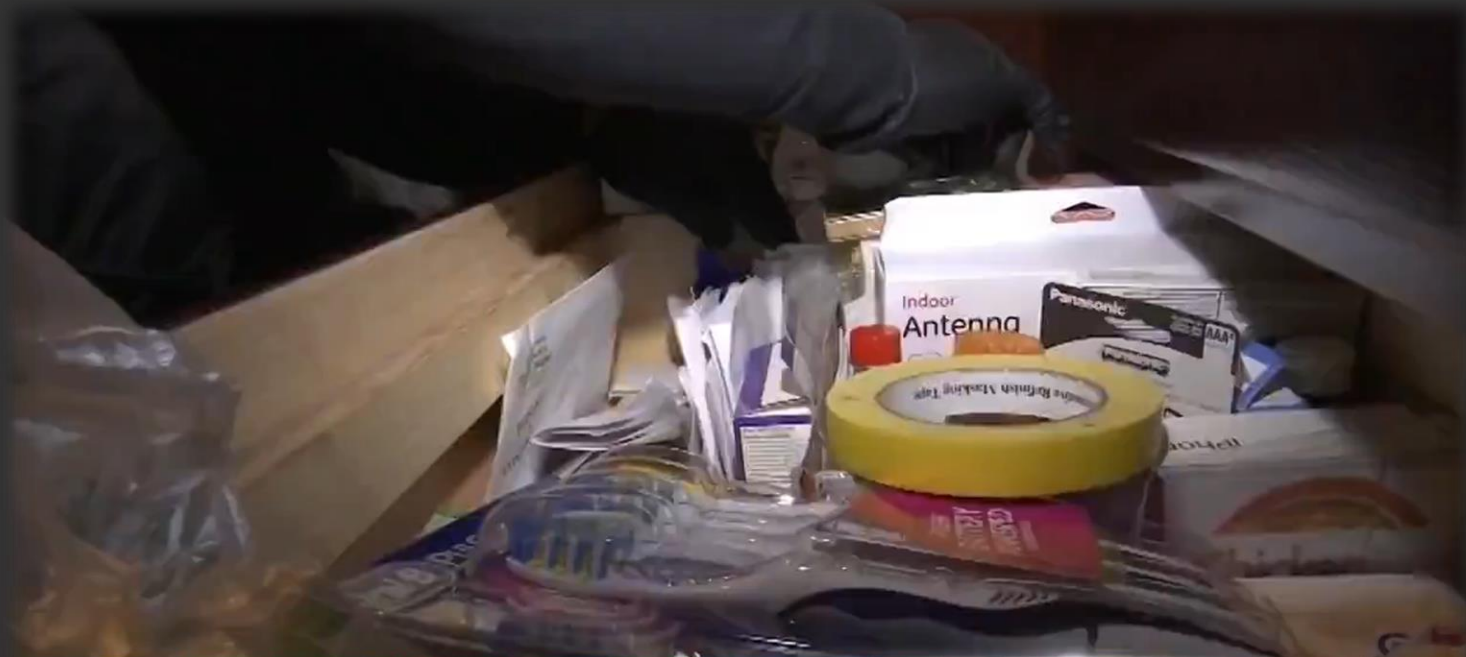
2018

-61% Reduction

283 Incidents of Gunfire



LAYERED TECHNOLOGY: SHOT SPOTTER – ALPR SITUATIONAL AWARENESS CAMERAS



CONCORD
80°

110 SEX OFFENDERS ARRESTED ON HALLOWEEN

THE BAY AREA'S LOCAL NEWS STATION

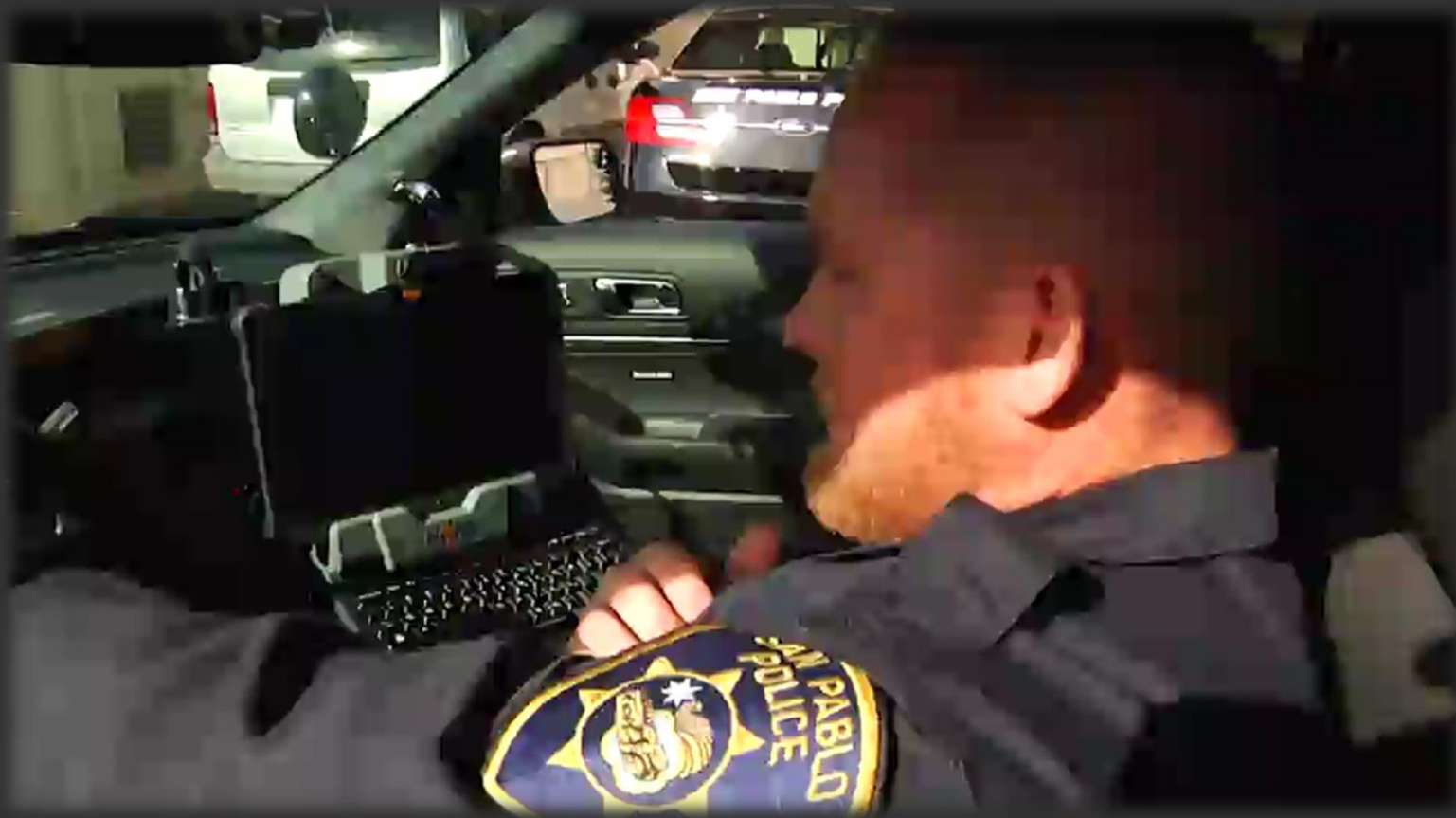
KRON 4

6:18 PM

EQUAL HARASSMENT 4 SEC. OF STATE POMPEO SAYS IT WILL BE 'HANDFUL'



StarChase Reduces Risk of High Speed Pursuits



Peregrine Software Assists Investigations



NBC BAY AREA

ALTAMONT PASS

CRASH ON 580 BRINGS TRAFFIC TO A STANDSTILL

6:01 66°
OAKLAND
NOW

NBC BAY AREA

@NBCBAYAREA



10-Year Crime Reduction

Part-1 Crimes -34%

Burglary -71%

Homicides -88%

Stolen Vehicle -42%

Robbery -33%

Juv Arrests -83%

*Statistics based upon UCR reporting for 3-year periods (2007-2009)(2017-2019)

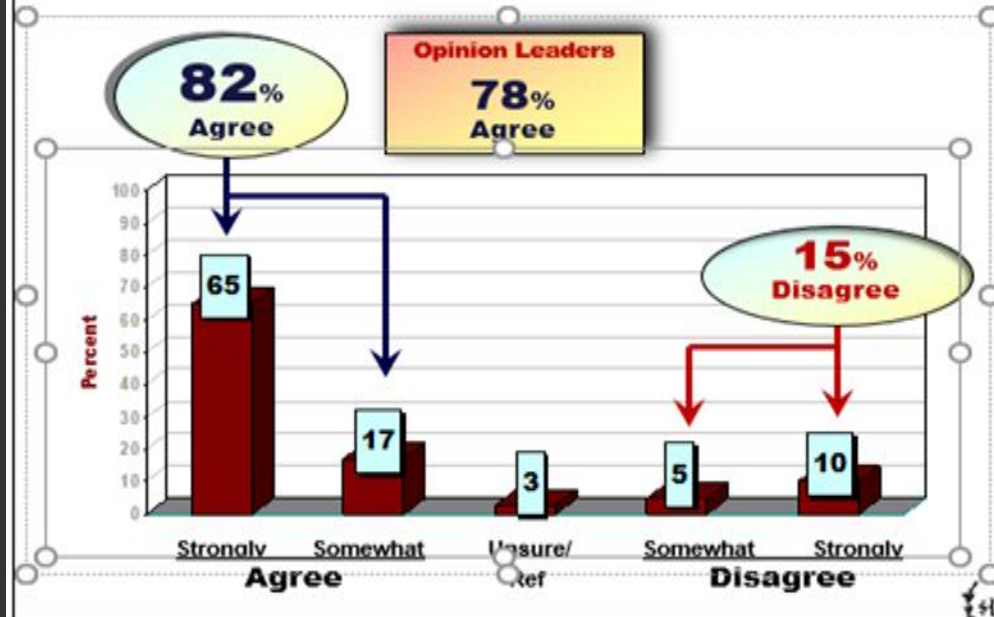


2018 Year End Community Survey

Figure 8
San Pablo 2018 Year-end Survey
December 2018

Should the City... Invest in New Technologies to Enhance Public Safety?

Question 10.0: San Pablo City Council has invested thousands of dollars into a new City-wide camera surveillance technology and body worn cameras for its Police Department. Should the City continue to invest in new technologies to enhance public safety?



PUBLIC SAFETY DRONES

- At least 910 state and local public safety agencies have established drone programs across the country.
- Law Enforcement agencies make up two-thirds of those agencies with drone programs
- Contra Costa County currently has three law enforcement agencies with established drone programs with more agencies moving forward.
- California has the second most drone programs in the country (58); Texas is first (67).
- Agencies with fewer than 100 employees represent the largest pool of agencies with established drone programs.

* Center of Study of the Drone at Bard College, 2018; <https://dronecenter.bard.edu/public-safety-drones-update/>



Drones Program Costs

Cost to acquire helicopter = \$500k - \$3million;
\$200k - \$400k yearly operations

Estimated costs for equipment procurement;
training; infrastructure of UAV Program = >\$100k



Model Drone Program

- Drone deployment must be authorized by an executive officer or supervisor.
- Deployments would be to assess the scope of an incident, assist search and rescue, give aerial views for crowd control or temporary perimeter control, to document a crime or accident scene or assist tactical squads.
- Drones would be used only by trained operators within line-of-sight and other FAA rules.
- Flights times, locations, missions and operators will be fully documented.
- Drones will not be equipped with weapons.
- Data will be downloaded securely and not erased or duplicated without written approval.
- Agencies will consider notifying the public when the drone is being used.

* IACP Conference (2015, <https://www.sandiegouniontribune.com/sdut-drones-unmanned-aircraft-iacp-law-enforcement-2015may20-htmlstory.html>)

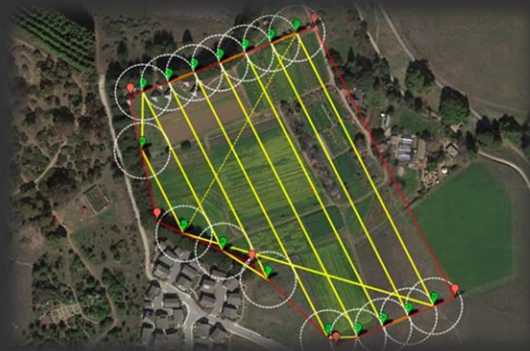


SPPD Critical Incident June 13, 2019



PUBLIC WORKS DEPARTMENT DRONE USAGE

- PROVIDE SAN PABLO RESIDENTS A BETTER UNDERSTAND OF PROJECT PLANNING
- ALLOW PUBLIC WORKS TO PURSUE ADDITIONAL FEDERAL AND STATE FUNDING
- SAVE TAX PAYER MONEY BY COMPLETING PUBLIC WORKS PROJECT FASTER
- HELP WITH PROJECT PLANNING, MAPPING, SURVEYING, AND DATA COLLECTION
- PERFORM INSPECTIONS AT LOCATIONS THAT ARE HARD TO REACH (HILLSIDE, ROOF, CREEKS)
- PERFORM INSPECTIONS FOLLOWING NATURAL DISASTERS





IMPOSSIBLE

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Aircraft Overview

US-1 is designed to match the endurance of a helicopter, but at:

- 1% of the cost
- 1% of the noise profile
- No risk to officer safety

The aircraft is manufactured in Santa Clara, California. It transmits video up to a range of 2.2 miles to a pilot on the ground.

The US-1 records 4K optical and up to 640x512 thermal video.

Coming from an American company, the US-1 offers several advantages:

- No risk of data sharing with foreign governments
- Rapid service and support

* Internet-connected remote diagnostics



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QUESTIONS?

