

October 23, 2024

2024 Sole Source Letter for Flock Safety® Public Safety Solutions

Flock Safety Drone-as-First Responder (“DFR”)

Flock Safety® is the sole manufacturer, developer, and distributor of the Flock Safety® Drone-as-First Responder and the Flock Safety® Drone Dock.

The Flock Safety® Drone-as-First Responder and the Flock Safety® Drone Dock are the only Law Enforcement Grade drone-as-a-first response and docking devices to offer the following combination of proprietary features:

- A fully remote, fully automated, multi-station, multi-drone, DFR platform capable of providing air support
- Improves safety by enabling a tele-operator to deploy a strategically positioned drone that can travel and arrive anywhere in the operational area within three (3) minutes
- Video live feed enables quick observation to a wide variety of issues and provides enhanced situational awareness for case clearance
- Designed to arrive on scene before patrol resources, which allows for a rapid response to high priority calls for service rendering it one of the most effective de-escalation tools
- All flight details are logged and any pictures/recordings during the flight can be viewed and downloaded for proper chain of evidence procedures
- Autonomous return and landing to Flock Safety® Drone IP55-rated docking station, which can withstand heat up to 120°F and cold down to -5°F, as well as heavy rainfall and snow
- Best-in-class 1880p video range and connectivity to ensure safe operations anywhere in a 3.5 NM radius from each station
- Offers live and recorded video solutions, including hardware, ongoing maintenance, and a cloud-based video management system, which allows officers to remotely view instant replay of downloadable live on-scene video
- Fifty-five (55) minute maximum flight time, 400 ft maximum ceiling, a fifty-three (53) MPH maximum horizontal speed, 400X Blended optical zoom, a 640 x 512 radiometric thermal camera allowing for 32X thermal zoom, a 1.86 mile laser rangefinder, and night vision
- Use data from all integrated interfaces, including computer-aided dispatch (“CAD”), gunshot detection systems, and automated license plate recognition (“ALPR”) systems
- An all-in-one solution that includes all hardware (drone, payload), software, pilot, and permitting/waiver support
- Performance monitoring software to predict potential failures and critical or minor issues.



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- Enables the use of the existing Real Time Crime Center (“RTCC”) team with no additional staffing
- Ability to enhance situational awareness capacity by layering the Flock Safety® Drone feed onto the FlockOS® ESRI-based map and FlockOS®, the Flock Safety® public safety platform that unifies first and third-party data across LPR, video, and audio to deliver real-time intelligence
- Flight logs are automatically updated in the system, ensuring transparency by providing accessible, redacted flight data for community members
- Success metrics of the DFR program are displayed in real time on a public dashboard, illustrating its positive community impact through quantifiable results
- **Partnerships**
 - Flock Safety® is the only provider to officially partner with AXON to be natively and directly integrated into Evidence.com.
 - Flock Safety® is the only provider to be fully integrated into a dynamic network of Axon’s Fleet 3 mobile ALPR cameras for patrol cars and Flock Safety’s Falcon® cameras.
 - Access to additional cameras and other hardware purchased by Flock’s customers and partners means an ever-increasing amount of hardware usage and data at no additional cost.

Flock Safety® LPR Video Camera

Flock Safety® is the sole manufacturer, developer, and distributor of the Flock Safety Condor™ PTZ video camera.

Flock Safety Condor™ PTZ

- Live and recorded video with remote PTZ controls ideal for open areas such as intersections or parks
- Subscription-based live and recorded video solution, including hardware, cellular, installation, ongoing maintenance, and a cloud-based video management system, which allows officers to remotely view instant replay of downloadable live on-scene video with PTZ controls and 25X optical zoom without the need for additional camera network set-up, installation, or up-keep
- Improves safety with live and recorded video for enhanced situational awareness and case clearance

The Flock Safety® LPR video camera listed above is the only Law Enforcement Grade LPR video camera to offer the following combination of proprietary features:

- **Vehicle Fingerprint Technology®**
 - Patented proprietary machine vision to analyze vehicle license plate, state recognition, and vehicle attributes such as color, type, make and objects (roof rack, bumper stickers, etc.) based on image analytics (not car registration data)



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- Machine vision to capture and identify characteristics of vehicles with a paper license plate and vehicles with the absence of a license plate
 - Ability to “Save Search” based on description of vehicles using Flock’s patented Vehicle Fingerprint Technology® without the need for a license plate, and set up alerts based on vehicle description
 - Only LPR provider with “Visual Search,” which can transform digital images from any source into an investigative lead by finding matching vehicles based on the vehicle attributes in the uploaded photo
- **Integrated Cloud-Software & Hardware Platform**
 - Best in class ability to capture and process up to 30,000 vehicles per day with a single device powered exclusively by solar power
 - Wireless deployment of solar powered license plate reading cameras with integrated cellular communication weighing less than 5lbs and able to be powered solely by a solar panel of 60W or less
 - Web based footage retrieval tool with filtering capabilities such as vehicle color, vehicle type, vehicle manufacturer, partial or full license plate, state of license plate, and object detection
 - Utilizes motion capture to start and stop recording without the need for a reflective plate
 - Motion detection allows for unique cases such as bicycle capture, ATV, motorcycle, etc.
 - On device machine processing to limit LTE bandwidth consumption
 - All images and metadata is encrypted throughout its entire lifecycle from on-device to storage in Flock’s US-based CJIS-compliant cloud
 - Cloud storage of footage
 - Covert industrial design for minimizing visual pollution
- **Transparency & Ethical Product Design**
 - One-of-a-kind “Transparency Portal,” a public-facing dashboard that details the policies in place by the purchaser, as well as automatically updated metrics from the Flock Safety® system
 - Built-in integration with National Center for Missing & Exploited Children (“NCMEC”) to receive AMBER Alerts to find missing children
 - Privacy controls to enable certain vehicles to “opt-out” of being captured
- **Integrated Audio & Gunshot Detection**
 - Ability to pair with Flock Safety Raven® audio detection device, which has natively integrated audio detection capabilities utilizing machine learning to recognize audio signatures typical of crimes in progress (e.g., gunshots)
- **Live Video Integration**
 - Ability to apply computer vision to third-party cameras using the Flock Safety Wing® LPR video camera, transforming them into evidence capture devices



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using the same Vehicle Fingerprint® technology offered on the Flock Safety Falcon® ALPR cameras

- Flock Safety Wing® Livestream integrates live stream traffic cameras, publicly or privately owned livestream security cameras into one cloud-based situational awareness dashboard to increase response time in mission-critical incidents
 - Manage various government intelligence including ALPR, livestream cameras, CAD, automatic vehicle location (“AVL”) on Flock Safety Wing® suite
 - Ability to access live and recorded video using Flock Safety Condor™, a subscription video solution which allows officers to remotely view instant replay of downloadable live on-scene video with PTZ controls and 25X optical zoom without the need for additional camera network set-up, installation, or up-keep.
- **Situational Awareness**
 - FlockOS® is the world’s first and only public safety operating system compatible with Flock Safety® LPR video cameras, including Flock Safety Condor™ live streaming fixed and Flock Safety Condor™ PTZ video cameras, and the Flock Safety Raven® audio detection device, while seamlessly integrating first and third-party data across video, LPR, and audio to deliver real-time intelligence and retroactive crime solving in a single-pane real-time crime center
 - Ability to enhance situational awareness capacity by layering all intelligence streams onto the FlockOS® ESRI-based map
 - FlockOS® features Flock Safety® unique Real-Time Routing feature that analyzes various data sources to determine where a suspect vehicle has been and its’ direction of travel providing users with possible outcomes based on a confidence threshold
- **Warranty & Service:**
 - Lifetime maintenance and support included in subscription price
 - Flock Safety® is the only fully integrated ALPR one-stop solution from production of the device to delivery and installation
 - Performance monitoring software to predict potential failures, obstructions, tilts, and other critical or minor issues
- **Partnerships**
 - Flock Safety® is the only LPR provider to officially partner with Axon® to be natively and directly integrated into Evidence.com®
 - Flock Safety® is the only LPR provider to be fully integrated into a dynamic network of Axon Fleet® 3 mobile ALPR cameras for patrol cars and Flock Safety’s Falcon® cameras
 - Access to additional cameras purchased by Flock’s HOA and private business partners, means an ever-increasing amount of cameras and data at no additional cost



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Thank you,

Garrett Langley CEO, Flock Safety®

