Skydio

See. Identify. Respond.

Dedrone + Skydio:
Integrated Counter-UAS Detection and Response

The Challenge: Securing Low Altitude Airspace

Alongside the immense benefits of drones, they also can pose a threat in the hands of nation-state adversaries, criminals, and irresponsible operators. Airspace security systems like Dedrone can detect and track drones and, in many cases, locate their pilots. But sensors can only follow a signal; they can't show what's in the air or the operator on the ground. Even with pan-tilt-and-zoom cameras providing visual confirmation, they can't follow a drone threat once it leaves their field of view. Skydio enables responders to overcome these limitations by flying to visually identify the drone, assess its behavior, and maintain visual contact throughout the incident.

When a drone or controller stops transmitting, whether it's powered off or out of range, sensors lose visibility—creating what is often referred to as a "dark drone". With Dedrone integrated with Skydio, responders retain visual awareness even when the signal disappears. When a suspected drone threat is detected, Skydio X10s can be launched immediately to respond. The X10s visually identify and track the drone, help assess the threat, and enable responders to quickly locate and interdict a rogue operator—the safest form of mitigation.

Dedrone delivers detection and tracking drone threats. Skydio closes the gaps in response through rapid visual identification and tracking, threat assessment, and mitigation.

One Platform for Airspace Awareness and Rapid Response

The integration between Dedrone and Skydio creates a powerful, end-to-end Counter-UAS (C-UAS) capability that enables agencies to both detect suspected drone threats and immediately respond using autonomous Skydio X10 drones—all while securely sharing data in the cloud.

Dedrone detects and tracks drones and can often find the location of the operator. But many rogue operators power down their drone controllers and flee, cutting off the radio signal and making them difficult to pinpoint. More sophisticated threat actors may use "dark drones" that emit limited or no detectable radio or GPS signals.

Skydio's AI-driven autonomy bridges these gaps by safely flying in complex environments to rapidly deliver on-scene visual intelligence within seconds. Once overhead, X10 provides a significantly broader perspective than ground-based observation alone.

Through integration with Skydio DFR Command, verified Dedrone alerts appear in the same interface used to launch a drone from a Dock. When an alert appears, an X10 can launch autonomously, stream live video, and guide responding officers directly to the pilot or drone source—even if the unauthorized pilot stops transmitting and leaves the scene.

Dedrone delivers the awareness. Skydio provides the response.

Dedrone – Airspace Awareness

- ☑ Detects, identifies, and tracks drone threats and rogue operators in real time
- ☑ Fuses RF, radar, optical, and acoustic sensors into a single operational view
- ☑ Provides verified drone alerts directly into Axon and Skydio systems
- ☑ Supports mobile and fixed-site deployments for events and infrastructure

Skydio – Autonomous Response

- ☑ Responds instantly to Dedrone sensor alerts through DFR Command
- ☑ Launches an X10 autonomously from the Skydio Dock to verify and investigate the alert through visual identification, tracking, and assessment of the suspected drone threat
- ☑ Streams live video to command staff and field units for coordinated response
- ☑ Captures video evidence automatically and securely in Axon Evidence

How it works

1. **Detect:** Dedrone identifies suspected drone threats and their controllers.

2. **Alert:** The detection automatically appears securely in the cloud through Skydio DFR Command.

3. **Respond:** A Skydio X10 launches autonomously to visually verify, track, and assess the suspected drone and rogue operator.

4. **Mitigate:** Once the rogue operator is visually confirmed, ground teams can move in to interdict the operator.

From a command perspective, this integrates detection, identification, tracking, and mitigation into a seamless common operating picture and response—from the initial detection to ground teams' interdiction of the rogue operator.

Why it matters

Integrated Counter-UAS capabilities are essential to safeguarding communities and infrastructure every day, and they are vital to protecting mass gatherings and special events.

Unified command awareness
Integrate C-UAS alerts and data directly into DFR Command for a single common operating picture and response architecture.

Faster, broader response
Autonomous launch puts an X10 within seconds, providing continuous "eyes in the sky" and a far wider field of view that enables responders to mitigate the threat faster than any ground team could achieve alone.

Close the loop
Dedrone detects and tracks; Skydio visually identifies and tracks, helps to assess the threat, and enables responders to quickly find and interdict the rogue operator.

Proven + scalable
Deployed in complex, high-profile public safety operations nationwide.

This solution combines operationally deployed airspace awareness with AI-enabled autonomous response—built for public safety.
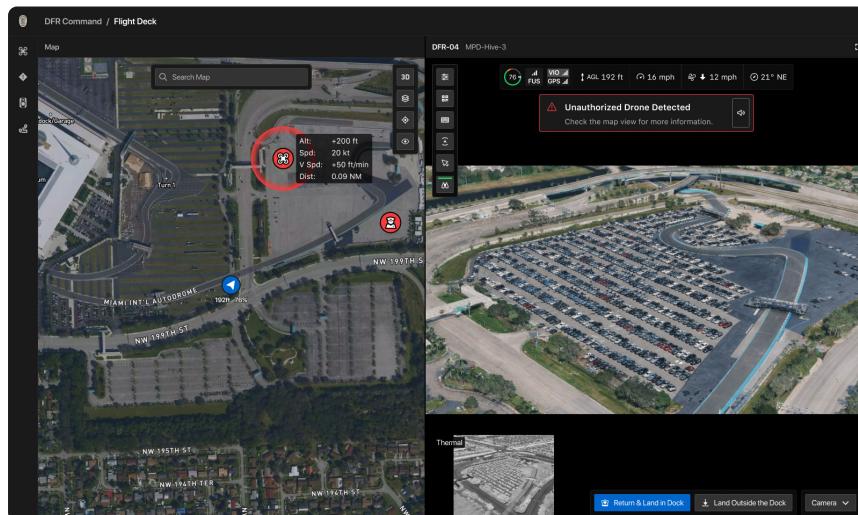
> "Utilization of the Dedrone detection platform in combination with the Skydio X10 was crucial in securing the airspace during a high-profile sporting event attended by tens of thousands of people. The Dedrone detection equipment would quickly identify incoming threats, while the Skydio X10 which was already being used to provide overwatch for the event could be redirected to locate the hostile drone operator. X10 allowed us to quickly locate the operator and direct ground intercept teams to their location. This combination of technology led to fast apprehensions, and the first arrest and prosecution for drone incursions at a sporting event in the State of Georgia."

Lieutenant Justin Bullis,
Cobb County Police Department