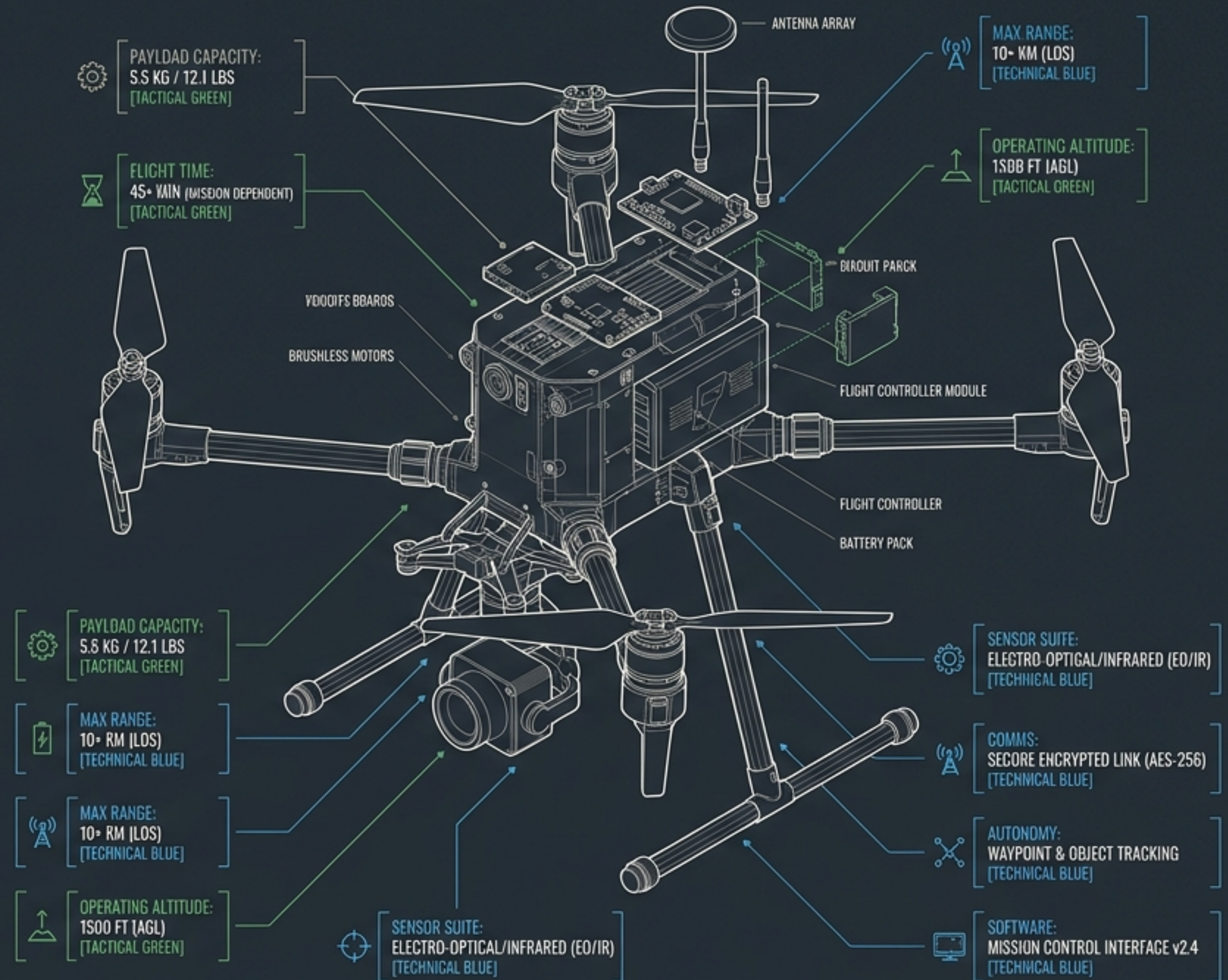
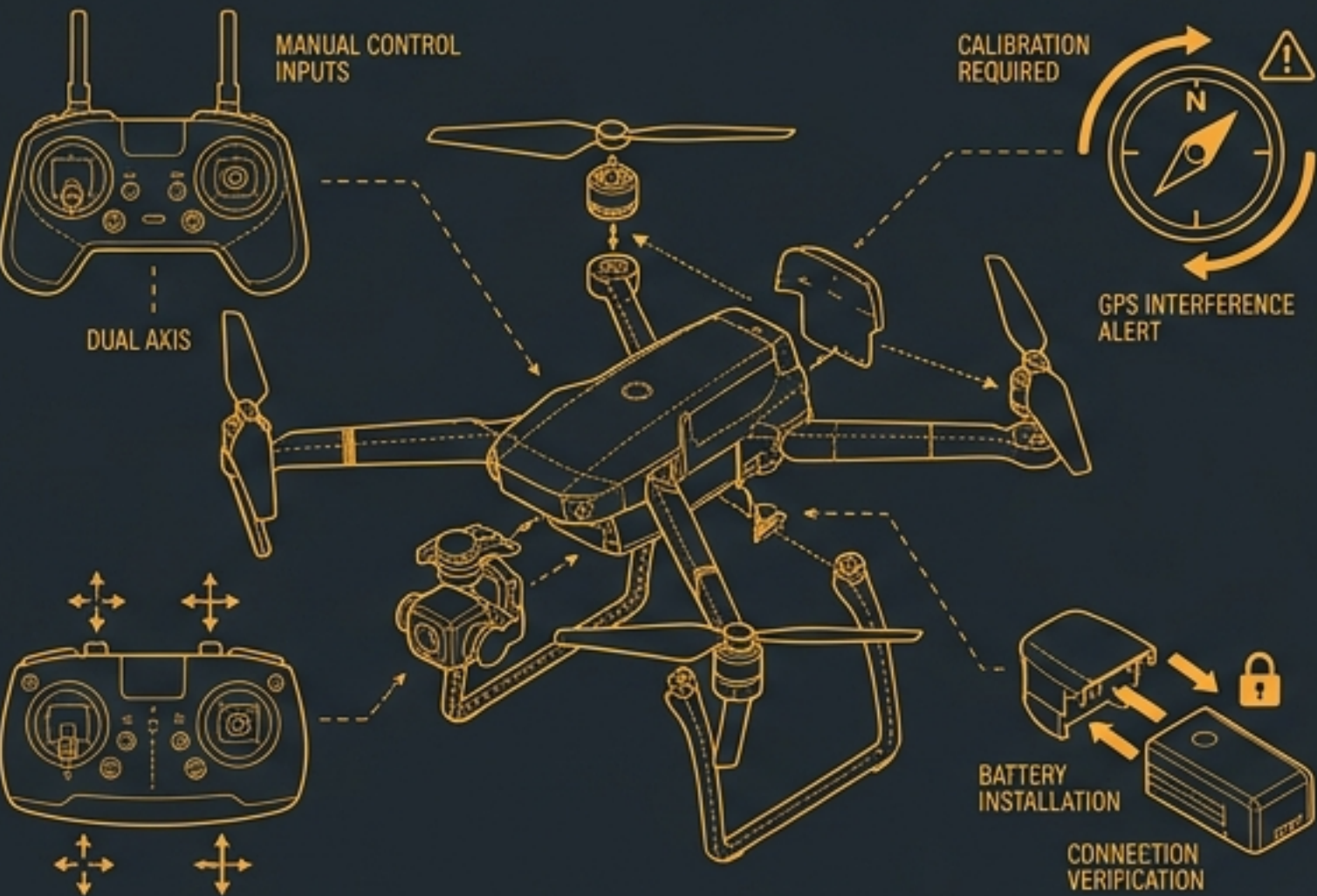


ENGINEERED AEROSPACE SYSTEMS FOR LAW ENFORCEMENT

Transforming off-the-shelf
drones into mission-specific
tactical assets for SRT,
Patrol, Crowd Management,
and First Response.



Consumer hardware fails at the tactical edge.



Standard drones require manual assembly, compass calibration, and complex joystick piloting. This demands total cognitive focus from an officer managing a high-stress incident.

MANUAL CONTROL INPUTS
—
DUAL AXIS
—
BATTERY HSER CONTROL STRONG

GPS INTERFERENCE ALERT
—
CONNECTION VERIFICATION
—



Officers require automated operational multipliers. Drones must deploy with a single button press and operate autonomously, keeping the officer's hands on their weapons

SYSTEM STATUS: ONLINE
—
GPS: LOCKED
BATTERY: 98%
SIGNAL: STRONG and radios.

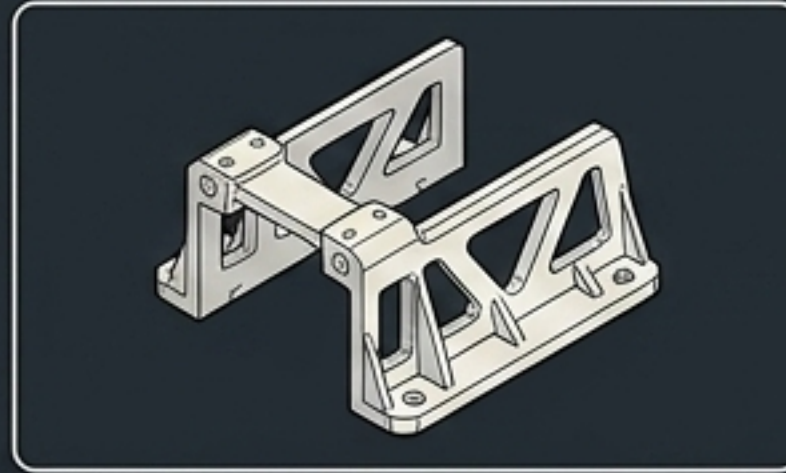
autonomously, keeping the officer's hands on their weapons and radios.

The Systems Integration Architecture.



[NDAA-Compliant Base Drone]
(DJI Matrice, Autel Max, Skydio, Brinc)

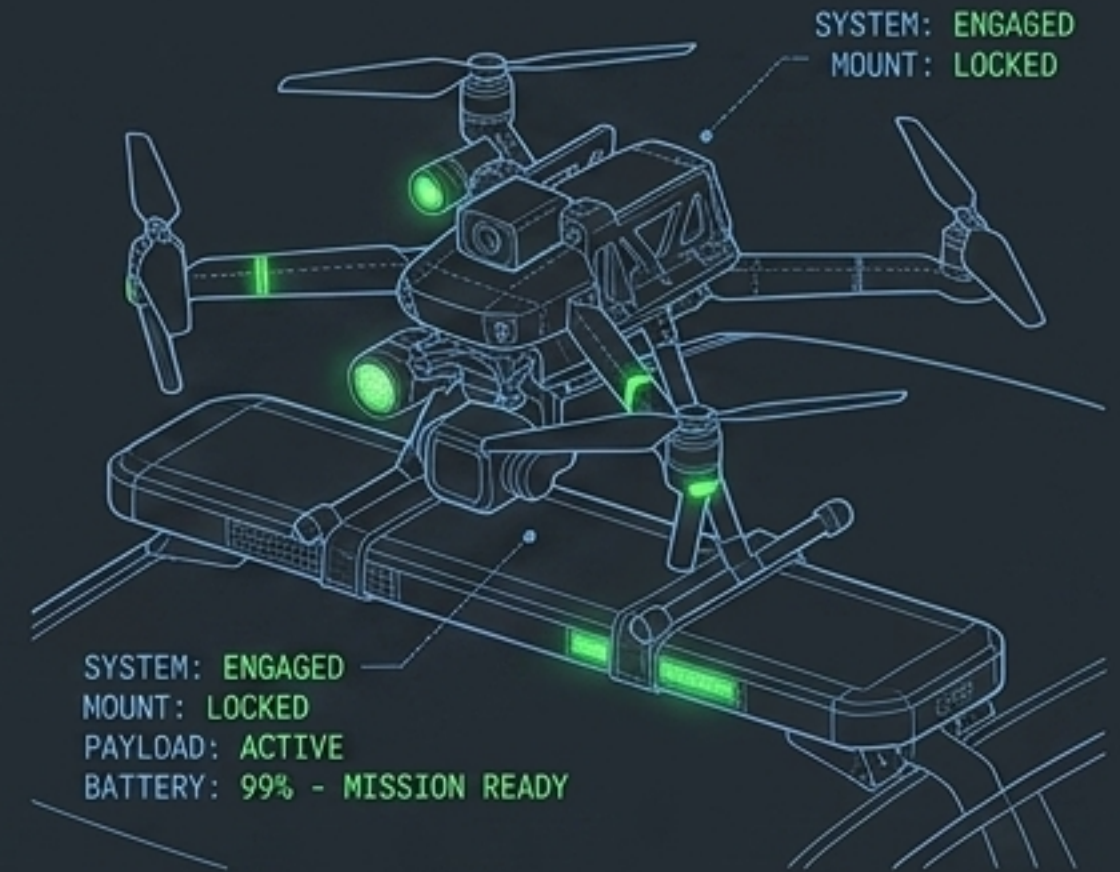
+



```
START_SEQ (PAYLOAD_INIT);  
LINK_SENSOR (THERMAL_IR);  
ACTIVATE_SERVO (DEPLOY_ARM);  
CALIBRATE_GYRO (AUTO_LEVEL);  
SYSTEM_READY_CHECK (STATUS_OK);
```

[Engineered Hardware Payload
& Automation Scripts]

=



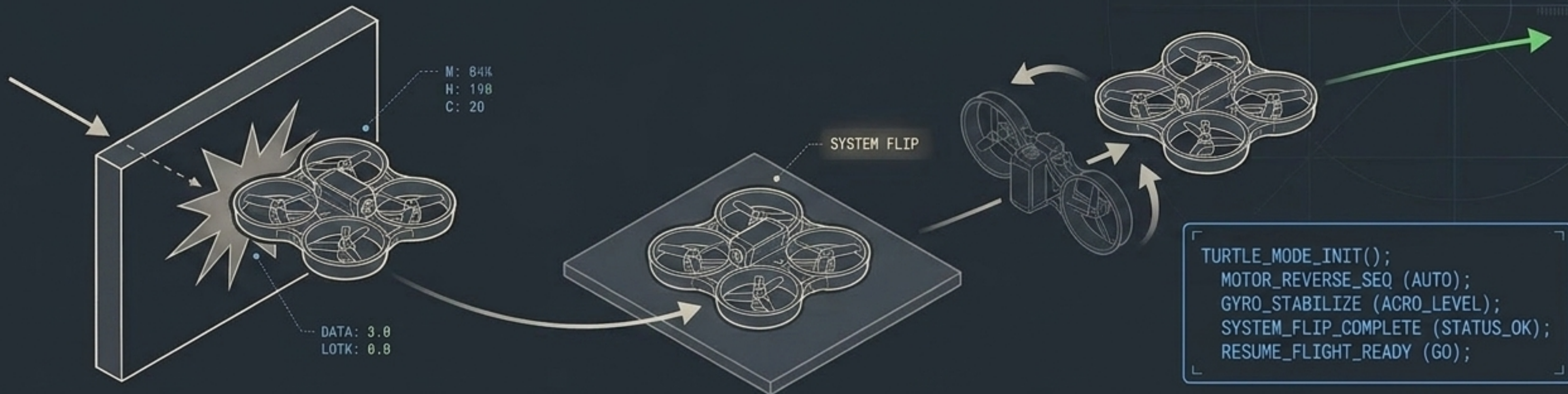
[Mission-Specific Tactical Asset]

We do not build drones from scratch. We act as your custom engineering division, bridging the gap between generic hardware and Clermont County's specific operational requirements.

Operational impact across all operational domains.

	Generic Deployment	Engineered Solution
Patrol	Officer stops car, manually assembles drone, distracted piloting.	✓ Weatherproof cruiser box, 1-button dash launch, AI hands-free tracking.
SRT / SWAT	Commercial drone crashes indoors, flips, requires manual retrieval.	✓ Enclosed micro-FPV, 1-button "Turtle Mode" auto-flip, tactical mesh droppers.
Crowd Control	30-minute battery life, visual monitoring only.	✓ 24+ hour continuous tether, AI crowd-crush heat mapping, directional LRAD.
First Response	Deploys from trunk after deputies arrive.	✓ Pre-arrival automated roof launch via CAD, specialized 3D-printed life-saving drop hooks.

SRT: The "Breach & Clear" Micro-FPV System.



Hardware Engineering

Custom-built, ultra-durable cinewhoop frames with fully enclosed propellers designed to fly through broken windows. High-intensity IR (Infrared) strobes blind suspect night-vision while remaining invisible to the naked eye, allowing SWAT uninterrupted visibility.

Software Automation

Custom 'Turtle Mode' script. If a drone flips upside down after a wall collision, a single button press automatically reverses motor polarity to flip it upright and resume flight without manual recovery.

SRT: Establishing communications in GPS-denied environments.

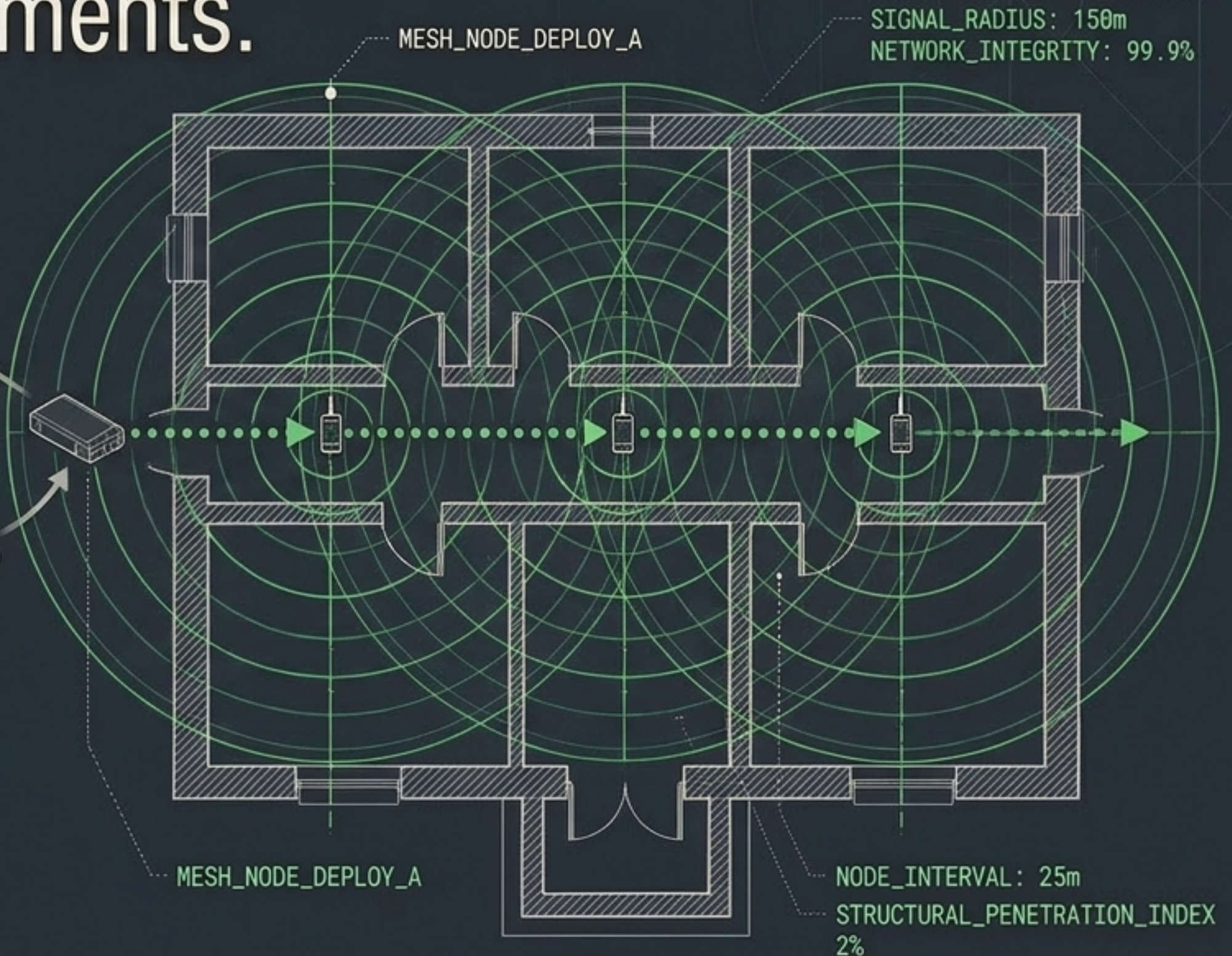
Hardware Engineering

Drone payload release system carrying ruggedized mesh-network repeater nodes (goTenna or Somewear).

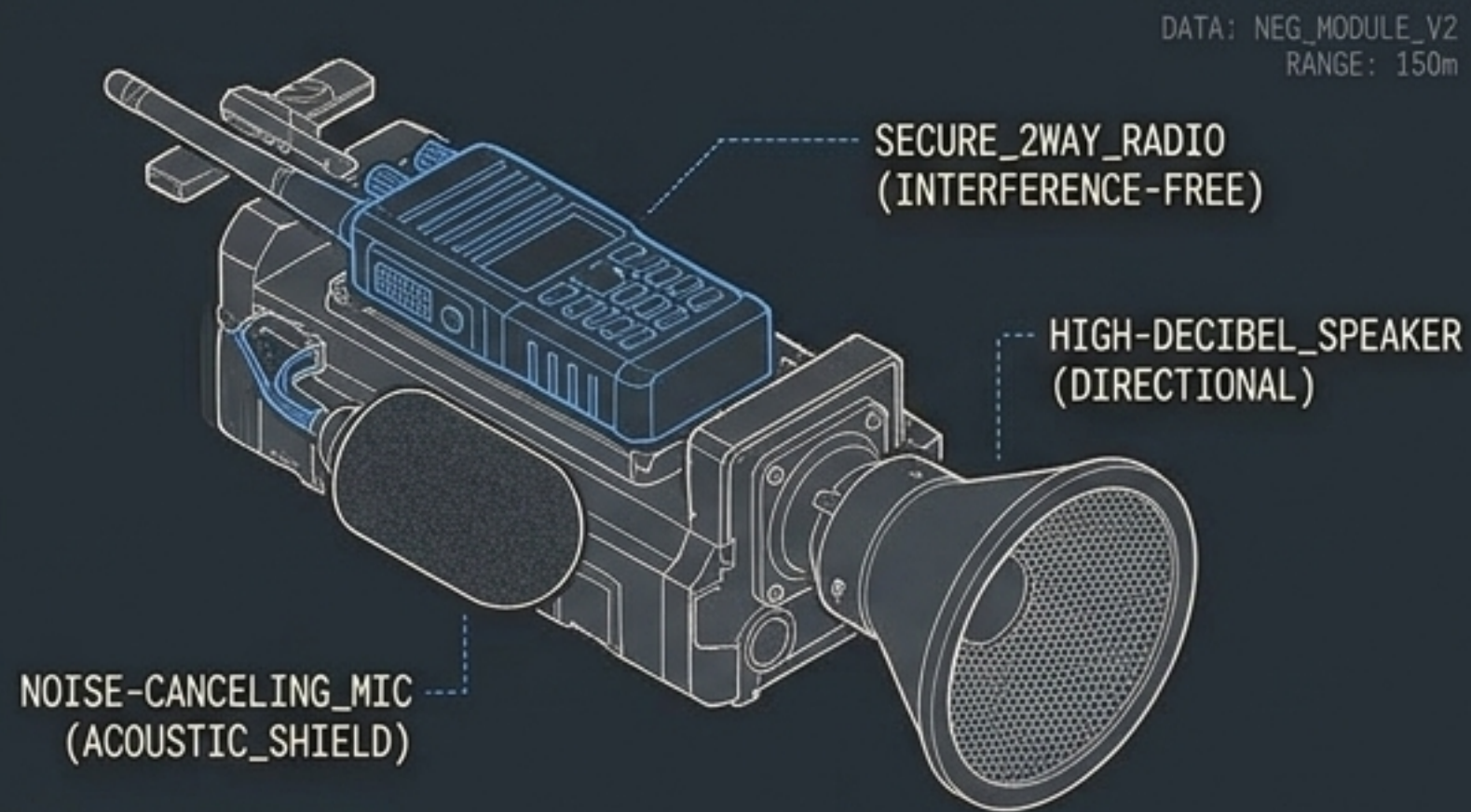
DATA: STB+BI
MOUTF: 2018

Strategic Application

When SRT enters a fortified concrete warehouse or school, traditional radio comms fail. The drone flies ahead, deploying repeater nodes at intervals down hallways to generate an instant, unbreakable communications web for the officers advancing behind it.

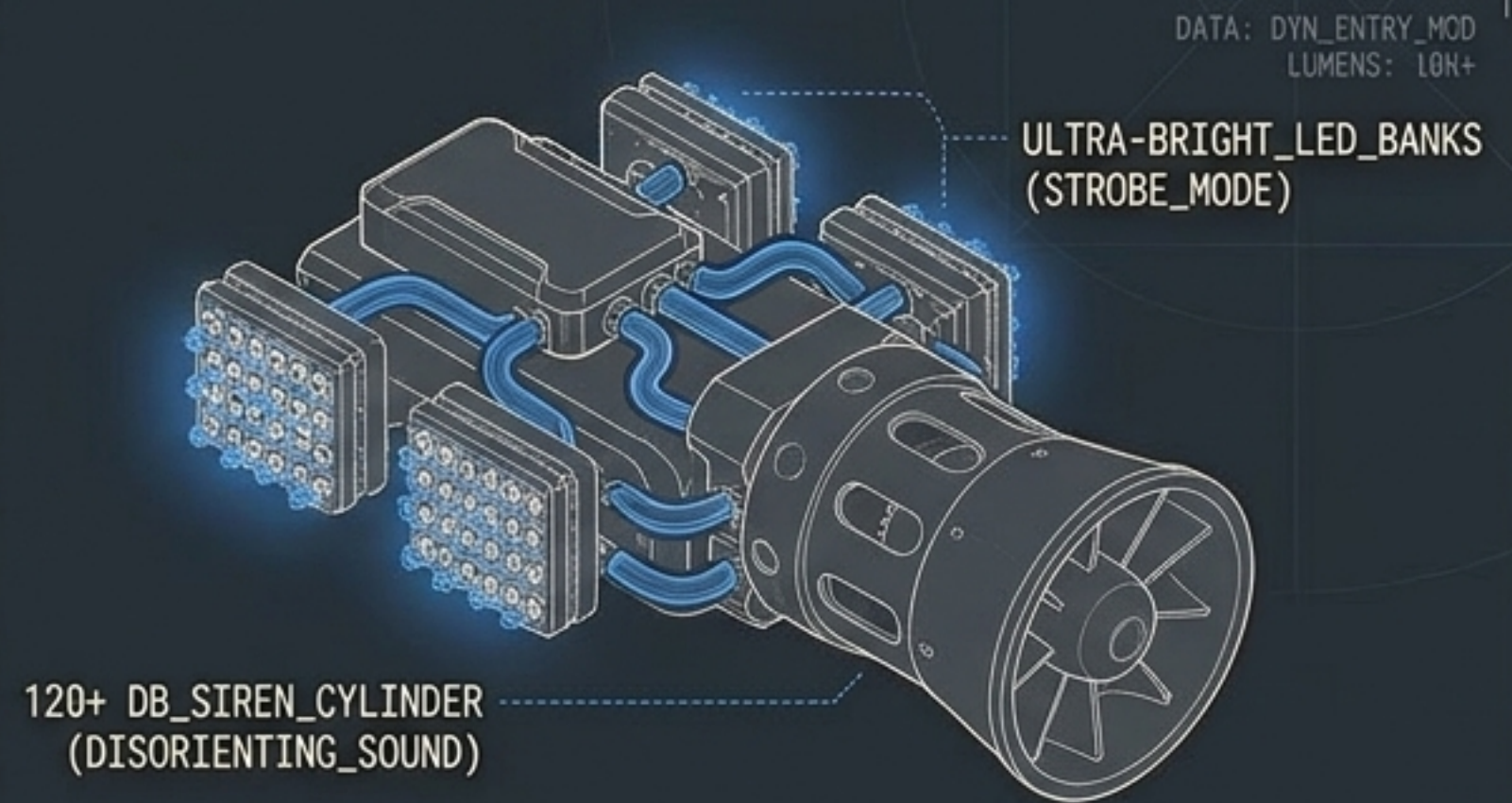


SRT: Specialized payloads for negotiation and dynamic entry.



Negotiation Payload

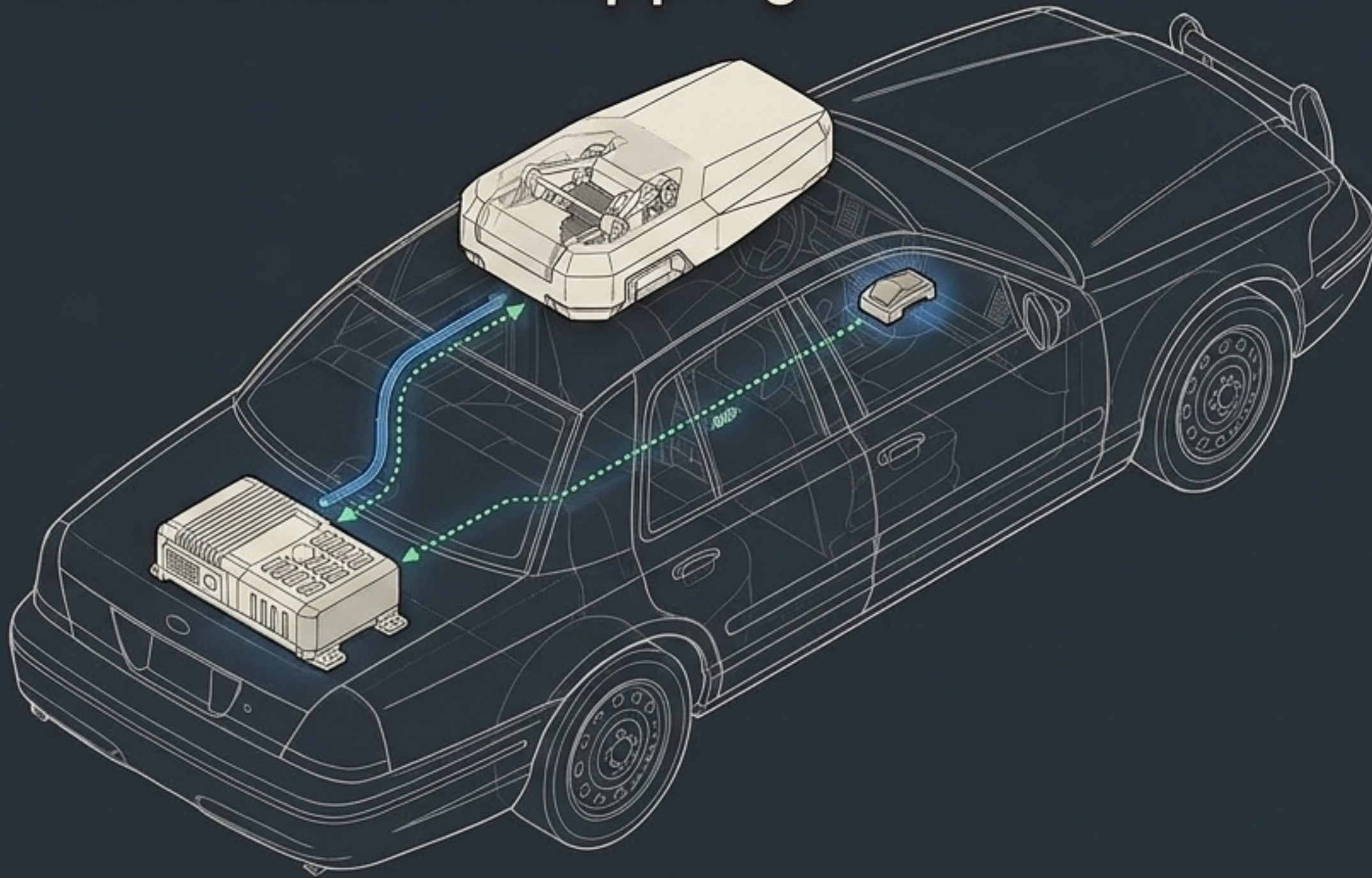
Engineered payload featuring a secure, interference-free two-way radio, a high-decibel speaker, and a noise-canceling microphone. Allows negotiators to speak directly to barricaded suspects through a second-story window without risking personnel.



Dynamic Entry Payload

Engineered for dynamic entry support. Equipped with ultra-bright LED banks and a 120+ decibel siren. On command, it flies to a peripheral window and unleashes disorienting sound and strobe lights a split second before SRT breaches a separate entry point.

Patrol: One-touch operational overwatch and accident mapping.



Hardware Engineering

DATA: 270+01
NOTTT: 2018

Weatherproof automated deployment box mounted to the cruiser roof. Custom edge-computing box integrated into the trunk.

Software Automation 1 (Overwatch)

DATA: 970+01
RANGE: 150m

One button press on the dashboard during a traffic stop opens the roof box and launches a drone to 100 feet for an instant top-down view transmitted to dispatch.

Software Automation 2 (Photogrammetry)

DATA: 500+01
NOTTT: 100m

Officer presses one button at a major crash scene. The drone flies an automated grid, captures 200 photos, and the trunk edge-computer instantly stitches them into a 3D map for traffic homicide investigators to clear roads hours faster.

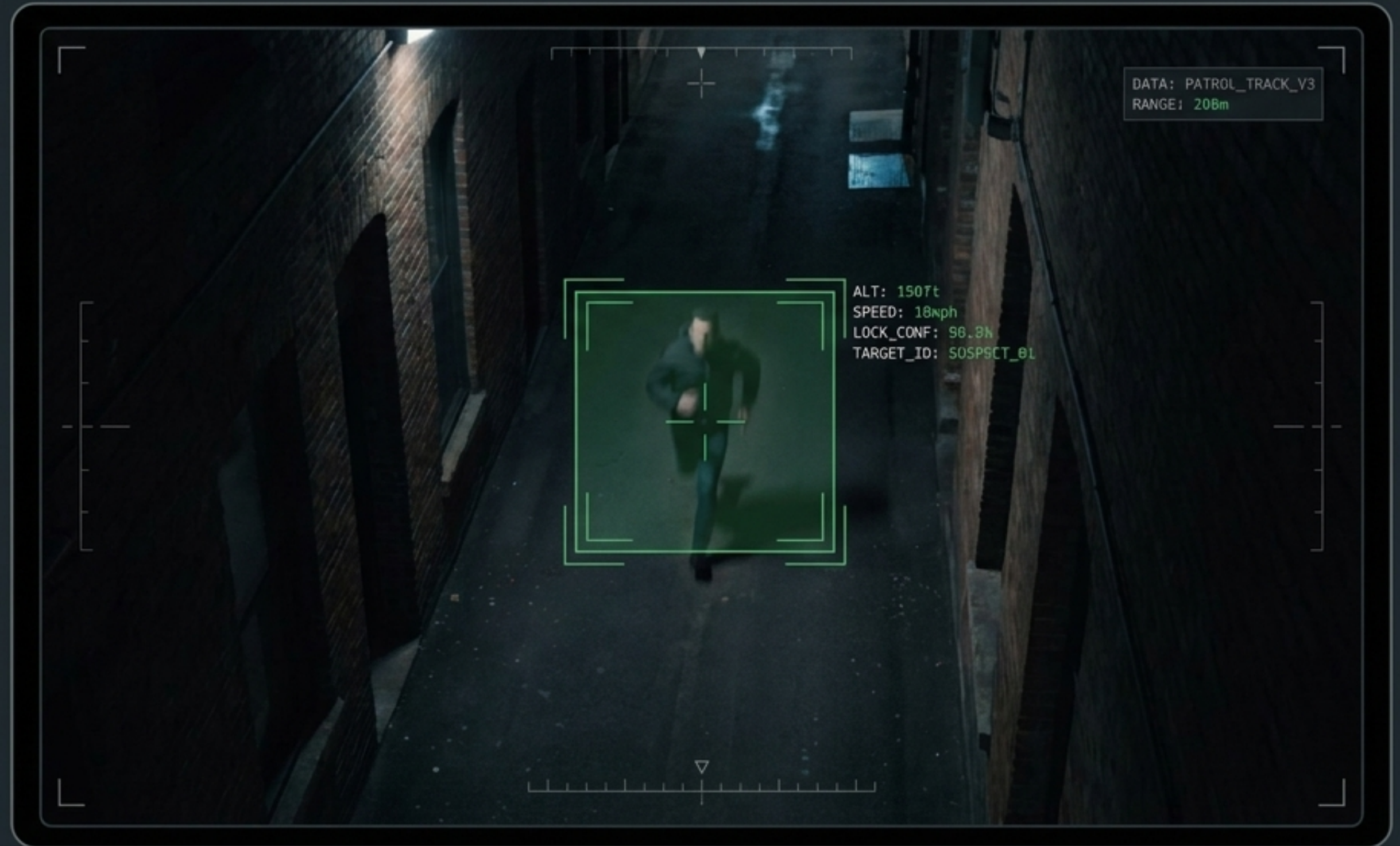
Patrol: Hands-free AI suspect tracking.

Software Automation

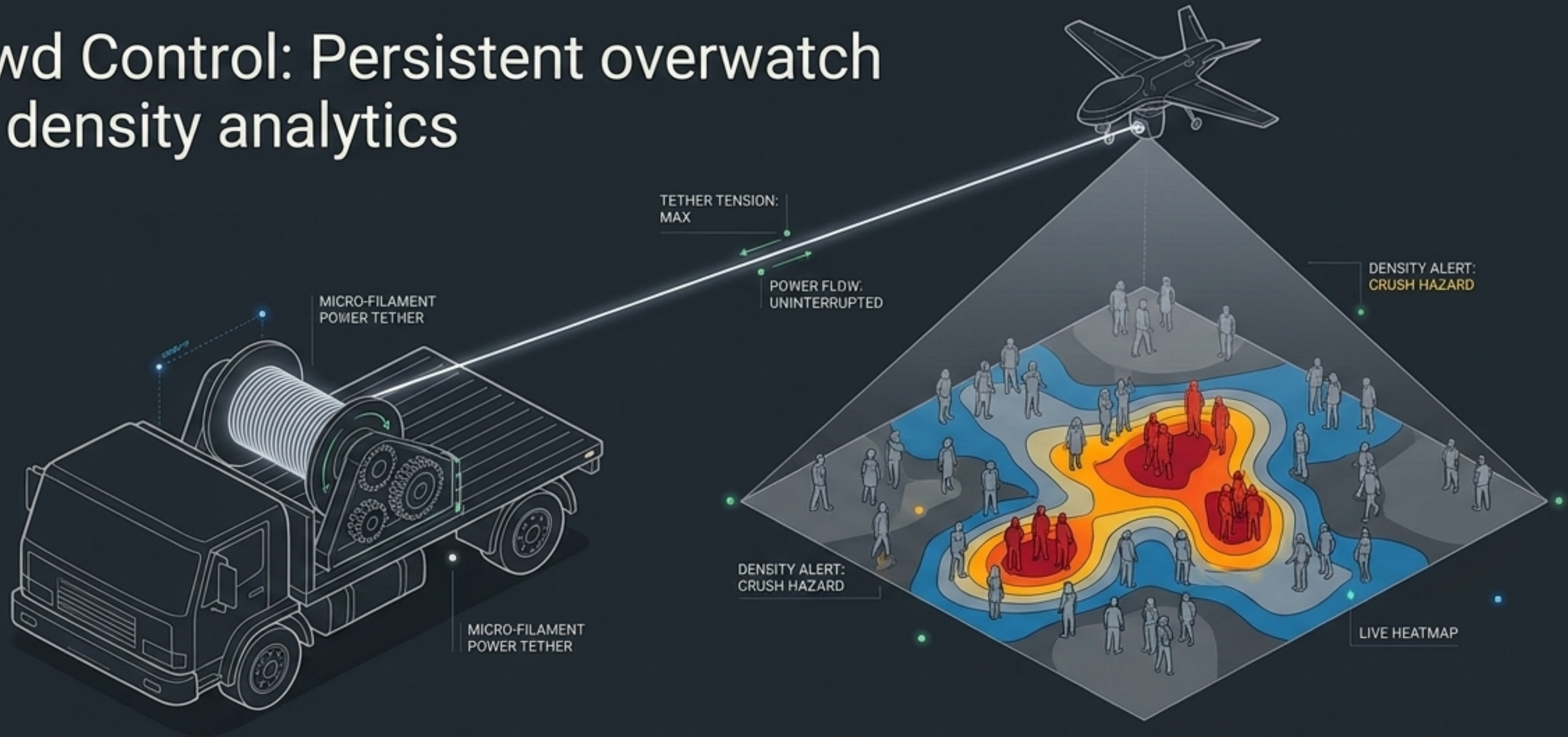
Advanced computer vision integration.

Strategic Application

During a foot pursuit, an officer can tap the suspect on their mobile screen. The drone utilizes AI to lock onto the subject and autonomously follows their movements. This completely removes the need for manual piloting, allowing the solo patrol officer to run while keeping both hands securely on their radio and weapon.

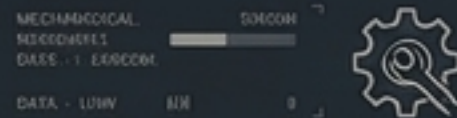


Crowd Control: Persistent overwatch and density analytics



Hardware Engineering

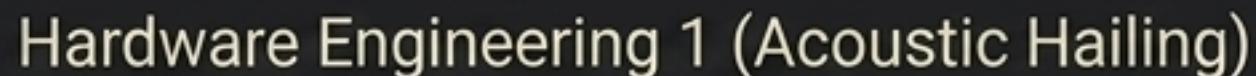
Custom trailer or truck-bed insert featuring a spooling micro-filament power tether, enabling uninterrupted 24+ hour flight times during county fairs or large protests.



Software Automation

AI crowd-density tracking analyzes the live video feed. It automatically heat-maps crowd bottlenecks and triggers alerts to command staff if a crush hazard is forming or a localized disturbance erupts.



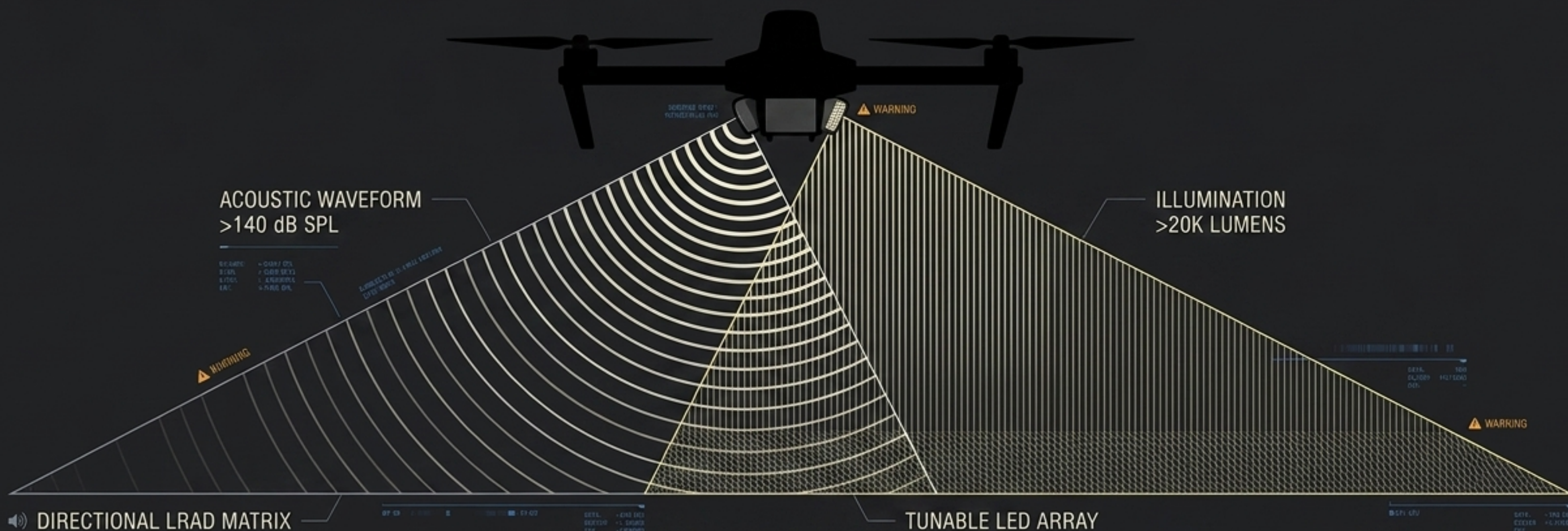


Integration of a directional LRAD (Long Range Acoustic Device) or custom PA. Command can fly over specific crowd sectors to issue crystal-clear, recorded dispersal orders without shouting through bullhorns or risking officer safety.



Hardware Engineering 2 (Aerial Floodlight)

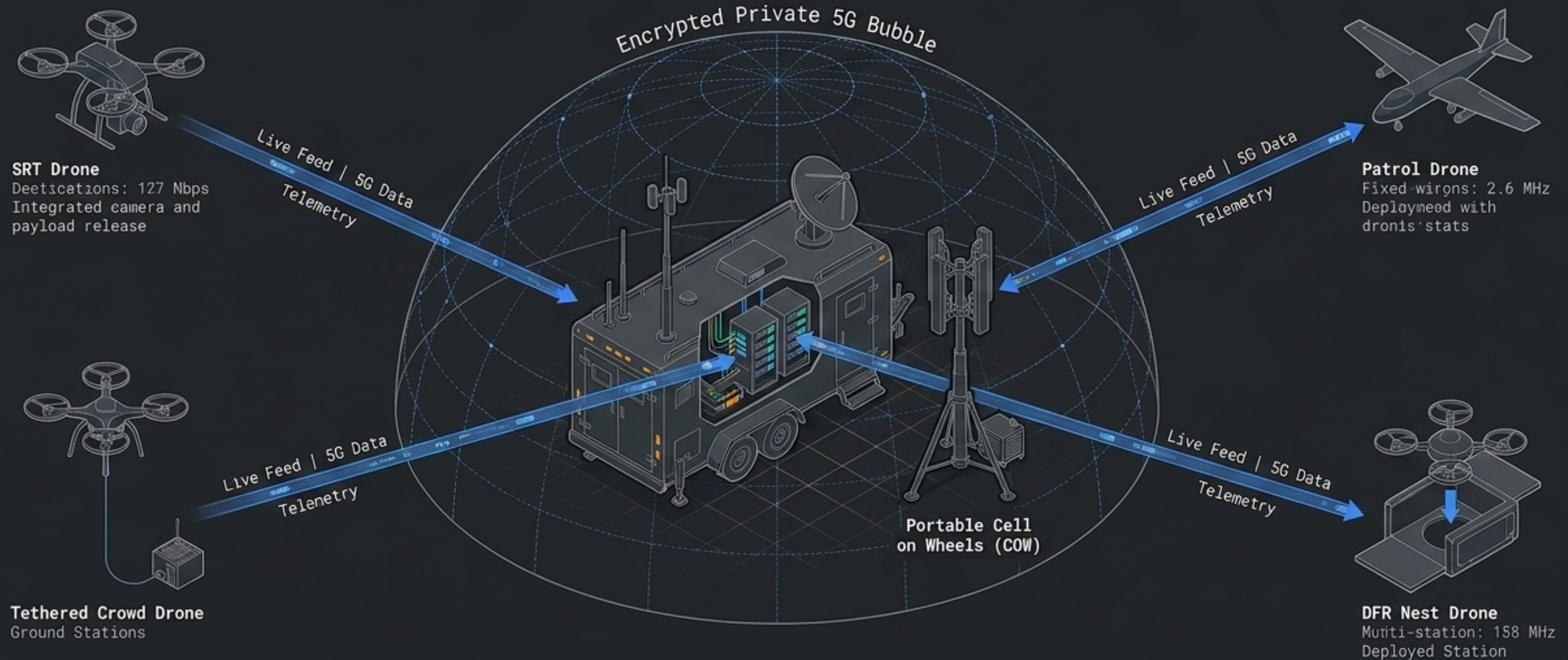
 A payload module capable of dropping 20,000+ lumens of tunable LED light onto a targeted area. Instantly illuminating a nighttime disturbance is a proven, high-speed method to scatter bad actors and de-escalate violence.



First Response: Automated deployment before deputies start their engines.



The Strategic Core: Unifying the tactical edge.



Hardware Engineering (Mobile Command):

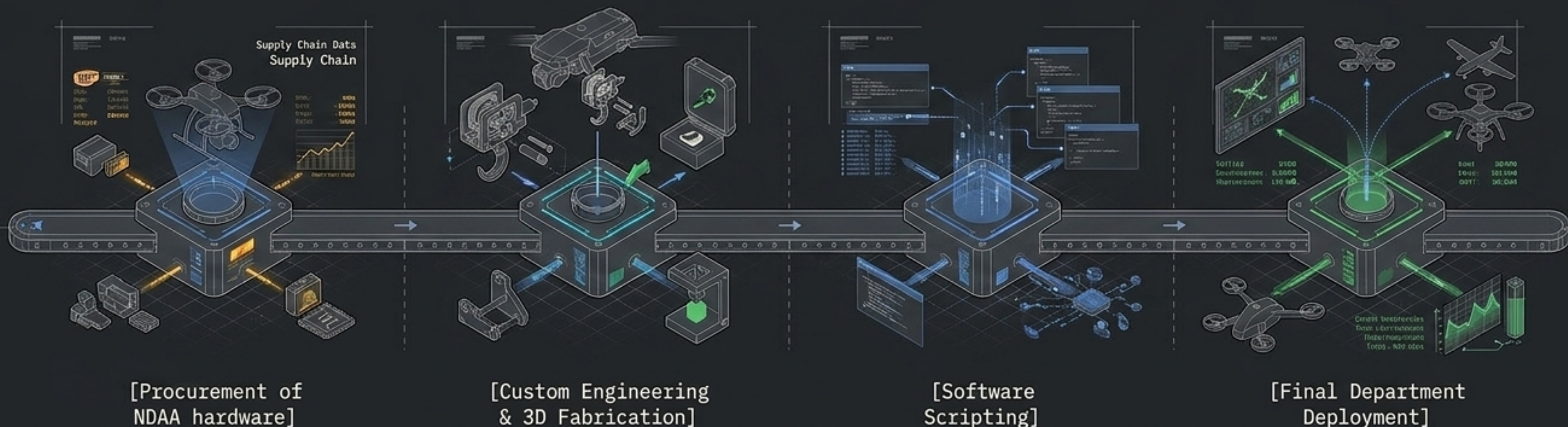
Custom built A/V racks and local servers inside the Mobile Command Vehicle, capable of ingesting and casting 5 simultaneous live drone feeds to command screens with zero latency.

Hardware Engineering (Network):

Portable "Cell on Wheels" (COW) tripod deployments. Creates a secure, private Wi-Fi/LTE bubble specifically for the Sheriff's drone fleet, rendering the system entirely immune to localized cell tower outages or public network congestion.

The implementation pathway.

We do not ask law enforcement to build their own technology. As your dedicated Systems Integrator, we source the highest quality NDAA-compliant base platforms. We engineer the custom brackets, fabricate the hardware payloads, write the mission-specific automation scripts, and integrate the network backbone.



You command the mission. We engineer the ecosystem.