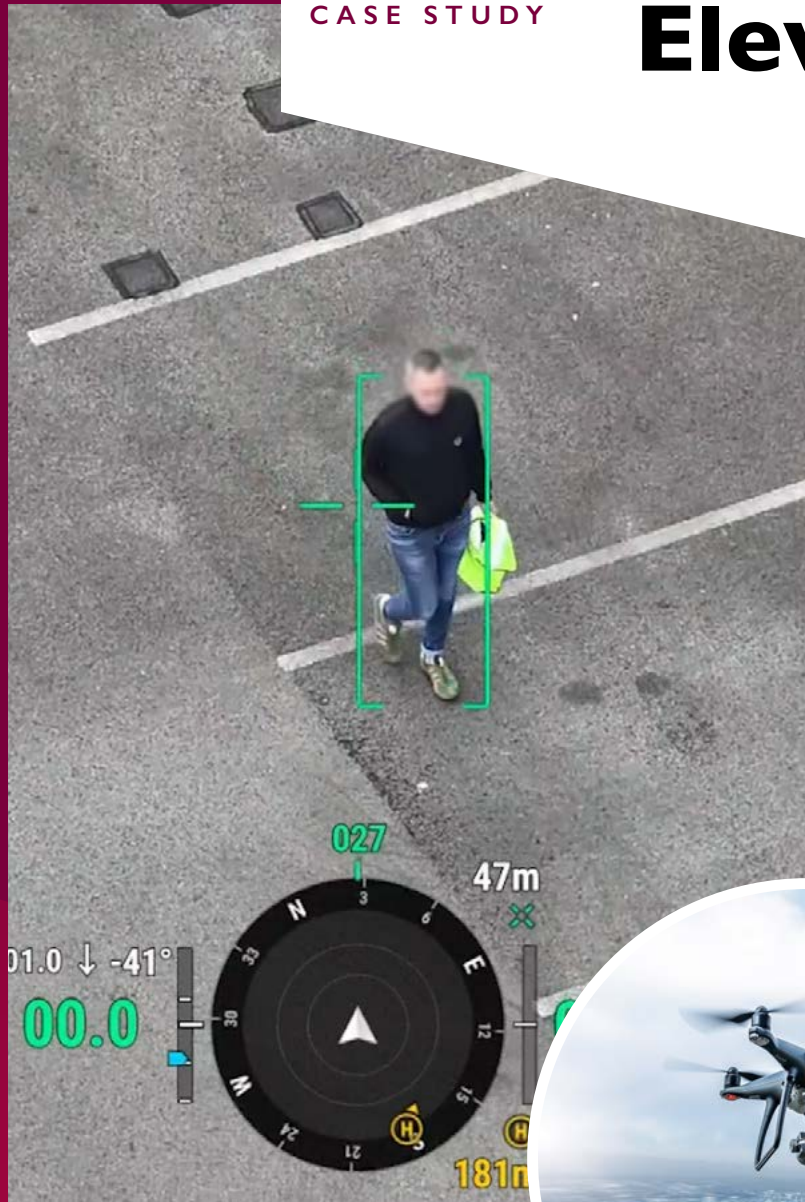


CASE STUDY

Elevating security for a global retail sports brand



CORPS
Est. 1859
SECURITY

SDG
SECURITY DRONE GROUP



Setting the scene...

A distribution facility presented unique security and safety challenges and required an innovative approach beyond traditional methods. With a compact site layout, regular facility inspections, and a need for both security monitoring and health and safety insight, Corps Security identified drone technology as the ideal enhancement to existing security infrastructure.

In partnership with Security Drone Group (SDG), Corps Security conducted a comprehensive 24-hour trial to evaluate drone capabilities across day and night operations, demonstrating transformative potential for the facility's security protocols.

Security challenges

The distribution centre faced several specific challenges, including...

- Prevention of theft in a high-value retail environment
- Risk of vandalism and unauthorised access to the facility
- Ensuring safety across expansive parking areas
- Need for regular roof inspections without manual intervention
- Requirement for rapid response to security incidents



Cutting-edge drone deployment

After a detailed site assessment was carried out, Corps Security showcased the cutting-edge M4TD drone system with sophisticated AI tracking technology.

The implementation included:

- Smart tracking capabilities to identify and follow people and vehicles
- Customised flight patterns at 65m height, optimised to minimise bird interaction
- Strategic dock placement on the facility roof with continuous power supply
- Integration with existing security systems for seamless operation
- 28x digital zoom camera providing detailed surveillance capability
- Six directional sensors for obstacle detection and avoidance



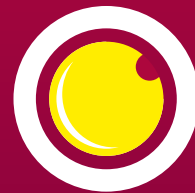
Technical specifications

The trial utilised the DJI Dock 2 with M3TD drone while also evaluating the superior capabilities of the M4TD system.

Key performance metrics included:

- Flight time of up to 40 minutes per mission
- Full battery recharge in just 35 minutes
- Maximum operational radius of 10km
- Cloud-based video storage for comprehensive review
- Remote editing capability for flight routes and patrol tasks

45
SECOND
RESPONSE
TIME



28x
DIGITAL
ZOOM
CAMERA

Transformative results

The drone security system delivered immediate and measurable improvements...

Superior response time: The system delivered a 45-second response time to triggered alarms, providing immediate visual intelligence to security personnel during potential incidents.

Enhanced surveillance: The drone's comprehensive patrol capability completed a full perimeter check in just 6 minutes, covering the entire site.

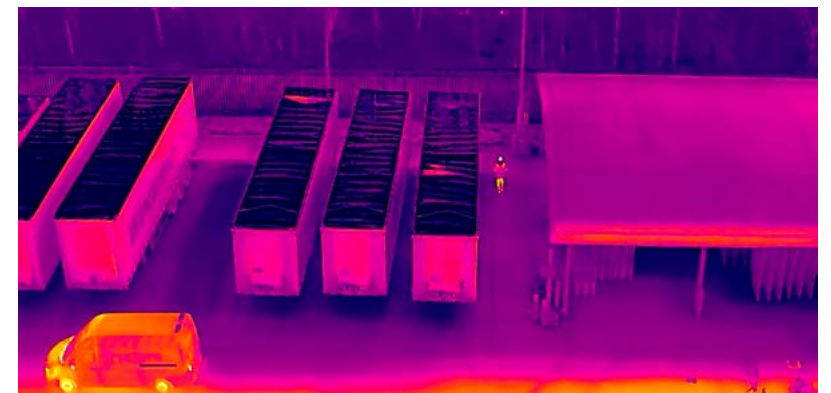
Dual-functionality operations: The solution provided distinct benefits across the facility's operational schedule...

- **Night operations:** Thermal imaging revealing blind spots and areas shaded by trailers and canopies, enhancing night-time security.
- **Day operations:** Enabling efficient health & safety inspections and roof assessments without manual intervention.

Efficient inspections: The system can perform solar panel inspections at 2mph, completing the task in just 6 minutes – this is significantly faster than manual methods and also eliminates safety risks to personnel.

Cloud-based recording: All surveillance footage is automatically uploaded to secure cloud storage, allowing security teams to review recorded video at any time from any authorised location.

Advanced integration: The system's AI capabilities provided intelligent threat detection and analysis, which significantly reduces false alarms while maintaining comprehensive security coverage.





Operational excellence

The compact nature of the site proved particularly advantageous for drone operations by allowing more frequent and thorough security patrols.

The facility's well-lit environment during night shifts created ideal conditions for effective surveillance, with thermal cameras providing additional visibility in shaded areas.

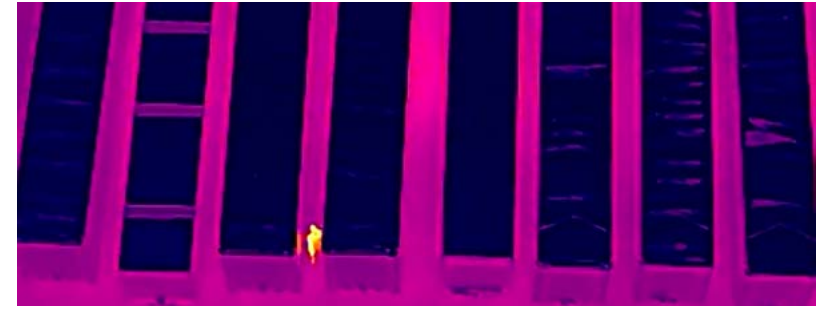
The site's security team demonstrated enthusiasm for integrating drone technology, creating an optimal environment for successful implementation.

As one security team member noted:

“The drone system has transformed our ability to respond to potential security threats while reducing risk to staff and our personnel.”



Keen to hear
more about how
drone surveillance
can improve your
security?



Future improvements

Based on the successful trial, Corps Security has recommended implementing the advanced Dock 3 and M4TD system for the global retail sports brand's facility.

The implementation roadmap includes several enhancements...

- 1. Theft reduction tracking:** Development of specific metrics to measure security incidents before and after implementation
- 2. Cost-benefit analysis:** Creation of detailed ROI timeline demonstrating value against traditional security methods
- 3. Staff testimonials:** Integration of feedback from the site security team about operational improvements to refine system deployment
- 4. Health & safety integration:** Expansion of drone capabilities to cover non-security tasks including roof inspections, safety compliance checks, and environmental monitoring

About Corps Security and Security Drone Group

Corps Security, founded in 1859, is committed to delivering innovative security solutions with social value at their core. As a Certified Social Enterprise, Corps combines cutting-edge technology with expert personnel to protect critical infrastructure across the UK.

Security Drone Group specialises in developing advanced aerial security systems for high-value industrial applications, focusing on AI-driven solutions that enhance traditional security approaches.

📍 We're here to help.

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