

CASE STUDY

Enhancing a major high street retailer's surveillance

CORPS
— Est. 1859 —
SECURITY

SDG
SECURITY DRONE GROUP

Setting the scene...

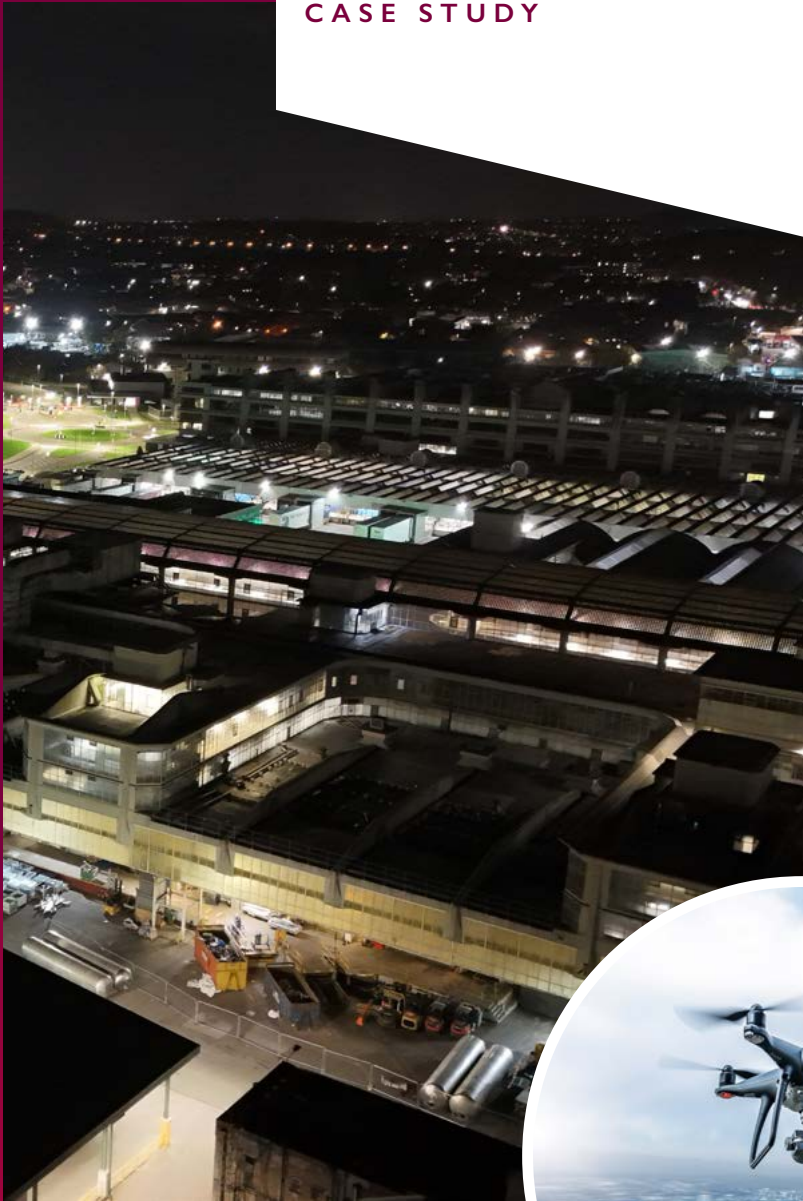
A substantial estate belonging to a major high street retailer based in the East Midlands presented significant perimeter security risks spanning almost 300 acres. Corps Security identified drone technology as a means to enhance the site's 24/7 security measures.

In November 2024, Corps Security partnered with Security Drone Group (SDG) to conduct a comprehensive week-long trial to evaluate the drone capabilities and enhance the pharmaceutical estate surveillance.

Security challenges

The facility presented a complex security environment, as the site consisted of corporate offices, manufacturing, packing and distribution buildings, situated in a remote location. It required:

- Prevention of theft of consumer goods and manufacturing products
- Extensive perimeter coverage to prevent fence breaches
- Remote vehicle tracking software to monitor speeding or dangerous driving
- Out-of-hours perimeter patrols



Cutting-edge drone deployment

After a detailed site assessment, a proof of concept trial was conducted utilising the M3TD drone system deployed with the DJI Dock 2 drone hanger, a tool designed for autonomous operations. A pre-flight inspection of the drone was conducted, flight parameters agreed on, and pilot certification was obtained.

The implementation included:

- Weatherproof IP55 classification and operation in wind speeds of up to 26mph at a maximum radius of 10 kilometres
- Seamless integration with existing security systems
- 28x digital zoom camera providing detailed surveillance capability
- Six directional sensors for obstacle detection and avoidance
- Infrared thermal imaging capabilities to identify individuals in low-light areas



Technical specifications

The trial utilised the DJI Dock 2 with the M3TD drone, and key performance metrics included:

- A flight time of 40 minutes
- Rapid charging cycles of 35 minutes
- Minimum flight height of 52 metres
- Maximum 10,000 km transmission range

90
SECOND
RESPONSE
CAPABILITY



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

Transformative results

With the M3TD in place, the drone security system delivered immediate and measurable improvements...

Rapid response: The system delivered a pre-programmed 90-second response time, with real-time incident capture providing direct relay capabilities to the control room.

Enhancing perimeter security: Frequent automated patrols provided essential support for limited security guarding resources, particularly during out-of-hours periods.

Vehicle tracking: The system proved highly effective in tracking vehicles and persons of interest. Surveillance and deterrence measures reduced incidents involving unknown vehicles.

Visible deterrence: The presence of the drone system, supported by appropriate signage, created a significant deterrent effect across the site.

Site operational benefits: Roof inspection capabilities, car park space monitoring and health and safety checks were possible with the drone surveillance.

Low-light operation: The thermal capabilities proved indispensable, allowing for identification of individuals during low-light operations.

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.

E. drones@corpsecurity.co.uk

W. www.corpsecurity.co.uk