



Tate Security AirShield Protection
With DJI Dock 3 and DJI Matrice 4TD

Tate Security AirShield

Security Services



Overview of Tate AirShield

Combating Prison's Biggest Crisis

About Tate Security

Based in the UK, Tate Security specializes in fully automated drone-in-a-box solutions. Our flagship system, AirShield, is designed specifically for security applications, offering automated aerial surveillance for efficient facility and perimeter monitoring.



Why Partner With Tate Security

Tate Security is trusted by leading organizations, including the police, Ministry of Defence (MoD), and Critical National Infrastructure (CNI).

- **Technical Expertise:** Our deep knowledge of both software and hardware allows us to seamlessly connect with your CCTV system, sensors and IT systems.
- **Tailored Solutions:** With a proven track record in industry-specific use cases, we program automated drone deployments that are customized to your security scenarios.
- **Reliable Results:** We deliver practical and reliable solutions that ensure your operations are efficient, and scalable.

This document provides a comprehensive breakdown of AirShield for security purposes, covering equipment specifications, software features and business case analyses.

Please note that the information provided herein is for informational purposes only and may be subject to change. For the most current details or further inquiries, please contact us at [01942 222444](tel:01942222444).

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Equipment



The DJI Dock 3 with the DJI Matrice 4TD Drone provide a Security solution, with operations controlled remotely from the Tate Security AirShield Control Program.

Capable Drone For Public Safety And Security

- **Powerful Zoom:** 48MP Tele Camera: 16x (112x hybrid zoom).
- **Night Vision and Thermal:** Camera 640 x 512, Infrared super-resolution up to 1280 x 1024. 28x Digital Zoom.
- **Weather-resistance:** DJI M4TD is IP55-rated, dust and rain-proof.
- **High Endurance:** 54 minutes and 10km operating radius.
- **Speed:** 15 m/s or 33.5 mph.

DJI Matrice 4TD



DJI Dock 3



Easy Deployment In All Weathers

All-weather Resistance: Handles temperatures from 50°C to -30°C and IP56 ensuring it can operate in all UK weather.

Environmental Monitoring: Integrated sensors, including rainfall, wind speed, and temperature gauges, perceive real-time weather changes.

Built-in Backup Battery: Built-in battery enables Dock to operate independently for more than four hours, with sufficient time for the drone to return and land.

Rapid Charging: Dock can charge the drone from 15% to 95% in 27 minutes.

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Software

Tate Security AirShield Control Program unlocks the full functionality of the automated drone station, offering complete control and enabling remote operations. Schedule missions, create and edit flight routes, and manage your collected data.

Why Choose Our Program?

Key Advantages That Set Us Apart

- **Offline Installation:** The system can be deployed on your premises without requiring an Internet connection.
- **UK-Based Development:** The Program is developed in the UK, ensuring compliance with national standards and supporting trusted procurement.
- **Self-Contained Operation:** Control program can operate fully isolated from wider IT systems, simplifying install.
- **Bespoke Integration:** Our solutions can be adapted to fit specific requirements.
- **Point of interest:** Operators can select a location on the map to view Security Patrols : Configure automated routes to support routine perimeter and asset surveillance.
- **Real-Time Video:** Live HD drone footage
- **PTZ Control:** Remotely operate the drone's camera in real time
- **Rapid Deployment Take-off:** Launch in under 45 seconds when rapid response is critical.
- **End-to-End Data Protection:** Builtin security safeguards the integrity of data and prevents unauthorised access.



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Deployment



Site Preparation and Safety Protocols

- **Dock Location Assessment:** Conduct a thorough assessment in conjunction with Tate Security to ensure you install the Dock at an appropriate location and with the correct infrastructure.
- **Safety Management:** Tate Security will assist in developing a robust safety management system and help you develop comprehensive operating procedures.

Installation



Permissions & Training



Regulatory Compliance and Operator Training

- **Legal Authorisation:** Obtain the relevant permissions to operate the DJI Dock legally and safely. The drone will be controlled by a Pilot in the ECR using observers – personnel positioned outdoors and in radio contact with the Pilot, observing the airspace.
- **Operator Training:** Learn how to operate the Dock and obtain the relevant drone training certificates by receiving application-focused training from the experienced Tate Security drone training.

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Maintenance & Repair



Technical Support and Service Assurance

- On-Site Support: Fully trained service engineers available to deploy to your site, providing expert maintenance and repair services.
- Partner Certification: Tate Security offers training and an official certification enabling clients to perform maintenance and servicing to the required standard.

Service Level Agreement

Temporary replacement of Dock and Drone within SLA time frames if warranty repair cannot be completed in situ.

Applications Of Tate AirShield



Industrial Enterprises



Critical Infrastructure & Restricted Access Facilities



Customs Control & Border Management



Airports & Seaports



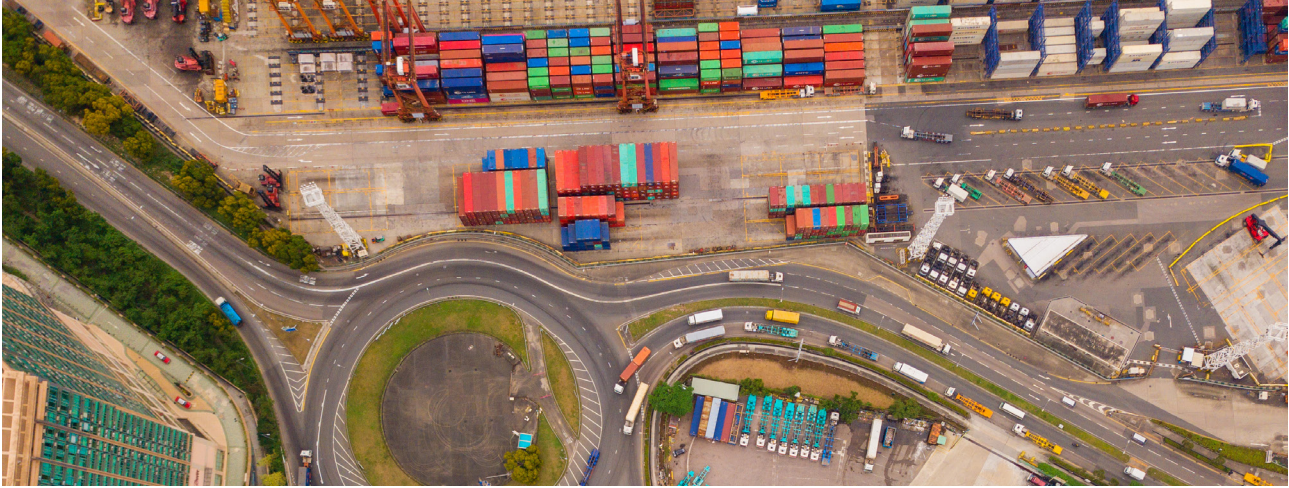
State Institutions



Cultural & Sports Venues

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Capability Demonstration

Scenario

Automated Drone Response Following Counter-UAV Detection

The site is equipped with a MagOS counter-drone defence system combined with a Tate Security automated drone. As an unauthorised drone approaches, the MagOS radar detects its current position and calculates its point of origin. This detection automatically triggers the Tate Security drone, which launches within seconds and flies towards the origin point.

Upon reaching the perimeter boundary, the drone uses its high-powered zoom PTZ camera to locate and identify the suspected operators. The Pilot viewing the live feed, radios the local police with precise intelligence — including exact coordinates, vehicle details, and suspect descriptions.

Technical Readiness

Technical Readiness

Key Steps to Ensure a Successful Demonstration

- **MagOS/Tate Security Handover:** Demonstrate how MagOS detects an incoming drone and automatically triggers the Tate Security drone to fly towards the threat, showcasing real-time detection and response.
- **Prepare ECR Screen Layout:** Set up the screen layout for the ECR, whether real or mock. Ensuring the screens for MagOS, Tate Security, and drone video are intuitive.
- **Rehearse Enemy Drone Demo:** Practice the enemy drone demo, positioning someone at a known location to ensure that at the required distances, the drone can clearly identify both the person and their vehicle.



Guaranteed Security

We continue to innovate service provisions to our clients and work in partnership to deliver new processes and solutions within our contracts which bring estate efficiencies and serve to bolster the overall objective of protecting our client's people, assets and reputations.



Contact Us Now

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