



Case Study:

DRONE SHOW

at Royal Windsor Horse Racing Course



LUMINA



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The Client



Lumina Drones Ltd

Project

Integrated security services for a drone entertainment event with over 13,000 spectators.

Location

Royal Windsor Horse Racing Course

Dates

Event - 16th April 2025. Static guarding operations – 14th-17th April 2025.

The Background

Lumina Drones Ltd are a drone light show provider who have been delivering shows in Europe and are licensed to utilise the drone technology that is performing displays in Disneyland Paris and the 2024 Olympic ceremonies in Paris.

They are now moving part of their operations to the UK and aiming to establish themselves, as a leading provider within the UK drone display market.

As part of the marketing campaign to announce their arrival into the UK market, Lumina organised several showcase events throughout the UK, where they exhibited their new drone display 'Space Safari'.

Space Safari is a 30-minute drone display, which is fully narrated and supported by cinematic quality sounds and music, telling the story of a young chameleon on a journey of discovery. The events also included fun fairs, food outlets, bars and VIP experiences, with between 13,000 – 16,000 people expected to attend each event.

Having worked with Lumina's sister company Barbican events, for a number of years, we were selected as the security services company of choice, and oversaw guarding operations throughout the set-up and the event security, on the night of the display.

Objectives

- ▶ Protect client assets on site, including drones present for setup and test flights from 14 April 2025.
- ▶ Ensure public and operational safety during live drone demonstrations.
- ▶ Control access to restricted areas including flight zones, VIP lounges, and vendor spaces.
- ▶ Mitigate security risks associated with large outdoor gatherings and aerial devices.
- ▶ Collaborate with local authorities and the event safety team to ensure a safe and secure event for all stakeholders and attendees.
- ▶ Deliver a secure yet welcoming environment for guests, families and VIP delegates.

Scope of Work

▶ **Venue Coverage Areas:**

- ▶ Public viewing areas
- ▶ VIP and media enclosures
- ▶ Food and drink outlets.
- ▶ Family funfair
- ▶ Launch pads and drone flight corridors
- ▶ Parking, drop-off, and shuttle locations
- ▶ Emergency evacuation routes

► **Security Services Provided:**

- **Static Guarding:** A 2-man guarding team was deployed 24 hours a day throughout the event to guard the facilities and client assets on site. This included a K9 unit which was deployed at night and undertook 45-minutes perimeter patrols.

► **Event Security Team:**

- 1x Event Safety Officer to work in the control room, alongside client management.
- 1x Security Manager.
- 5x Security Team Leaders, each designated a zone to control.
- 12x SIA licensed officers working in specific areas such as ticketing or in licensed area. 8 persons from this group were assigned as 2x 4-person response teams, once the event had started, who could quickly be deployed in the event of an emergency or to co-ordinate medical.
- 40x NVQ trained Safety Stewards deployed throughout the site in pre-assessed positions to monitor crowd behaviour and safety.

Challenges

- ▶ Monitoring of crowd behaviour and deployment of response team over a large event site.
- ▶ Managing crowd flow near active drone zones with both safety and visibility in mind.
- ▶ Threat of unauthorized drones or signal interference from third-party operators.
- ▶ High-profile guest attendance requiring discreet VIP protection.
- ▶ Rapid evacuation planning in case of drone malfunction or weather disruption.

Solutions Implemented

- ▶ Temporary perimeter fencing and access control checkpoints were set-up throughout the site to control unauthorised access into the site and sterile areas.
- ▶ Regular patrols were created to ensure vulnerable points were constantly checked. These were set-up on our Track-Tik system and monitored by our control room throughout the time officers were deployed on site.
- ▶ Mobile CCTV was set-up in key areas over the site and was monitored by CCTV operatives and the Safety Officer throughout the event.
- ▶ Zoned Security Deployment: Divided the venue into color-coded security zones with assigned teams, ensuring rapid communication and coverage.
- ▶ Site Familiarisation: Officers were brought in early to ensure full and proper briefings could be conducted, as well as site familiarisation to ensure that officers were properly acclimatized to their surroundings, and knew their responsibilities in **the event of an emergency**.

The Outcome

- ▶ Zero Security Incidents: No breaches, unauthorized drone activity, or attendee injuries.
- ▶ Rapid Response: Average response time to crowd concerns or safety issues was under 5 minutes.
- ▶ VIP Satisfaction: 100% satisfaction score from high-profile attendees, including private sector leaders and media.
- ▶ Public Praise: Commended by local authorities and event organisers for visible yet non-intrusive security presence.

Client Testimonial

"Security was one of our top concerns going into this event, especially with high-speed drones and a family-friendly audience. Matt, Mark and the team not only delivered professionalism and preparedness, but truly raised the bar on security for our shows moving forward. "

- Tom Connolly (Managing Director, Lumina Drones Ltd)





The Conclusion

The Space Safari drone display demonstrated the importance of blending traditional security principles, with next-generation risk mitigation tools. We feel we delivered an airtight, scalable, and future-proof security solution that allowed innovation, entertainment, and public safety to coexist seamlessly.





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This work was undertaken by Total Security and Cleaning Services Ltd, who changed their name to GuardTec Security and Patrol UK Ltd from January 2026.