QINETIQ

QinetiQ Aerostat Solutions: Persistent, High-Altitude Surveillance for Defense and Security

Unmatched real-time intelligence and communications for military, homeland security, and critical infrastructure protection.

Trusted by U.S. leaders in border and national security

QinetiQ has been successfully delivering operations and sustainment services for complex aerostat surveillance systems, providing 24/7 surveillance along the U.S.-Mexico border. With more than 1,000,000 flight hours, this program showcases the reliability and effectiveness of our aerostats in challenging, high-demand environments.

Applications

– **Border Security**: Monitor and protect national borders with persistent surveillance, ensuring early detection of unauthorized activities or threats.
– **Military Operations**: Enhance battlefield awareness, intelligence gathering, and troop protection with real-time ISR capabilities.
– **Critical Infrastructure Protection**: Safeguard vital assets such as power plants, refineries, and ports from potential threats or sabotage.
– **Disaster Response & Recovery**: Provide rapid communication and situational awareness during natural disasters or emergency situations.

Key Features and Benefits

Up to 30 Days of Continuous Deployment: Provides extended, round-the-clock surveillance and communication capabilities for mission-critical operations.

Customizable Payloads: Integrates various sensors, including EO/IR cameras, radar, and communications relays, to adapt to diverse mission requirements.

Wide-Area Surveillance: Capable of reaching altitudes up to 15,000 feet, offering comprehensive coverage for border security, battlefield awareness, and infrastructure protection.

Rapid Deployment & Mobility: Easily deployed and relocated, making it ideal for dynamic operational environments and emergency response situations.
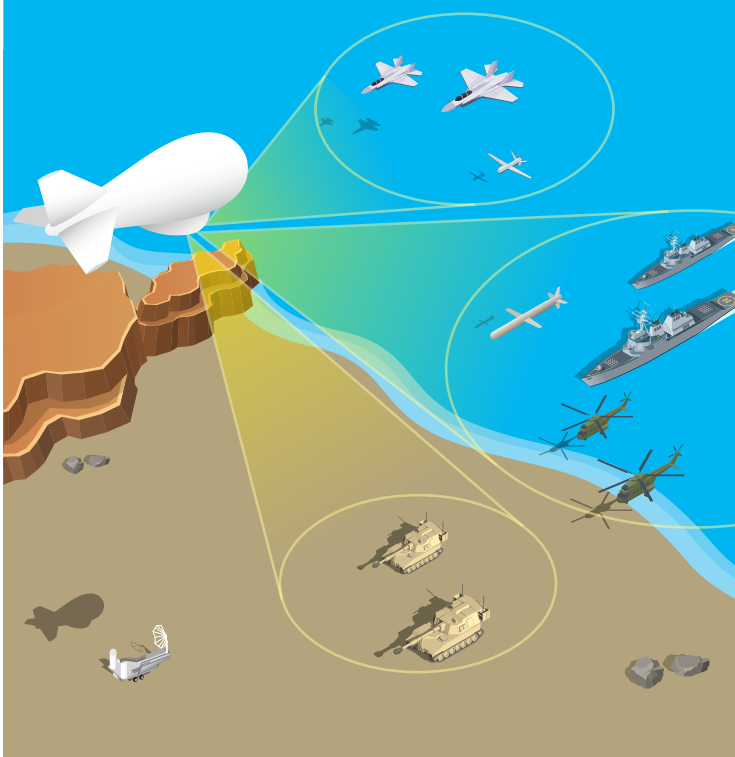
Cost-Effective & Reliable: Significantly reduces operational costs compared to manned aircraft or UAVs, ensuring long-term, sustainable surveillance.

Turnkey Operations: Our Aerostat operations utilize Secure, Persistent & Aware Data Ecosystem (SPADE), to maximize mission success. SPADE provides comprehensive insights and analytics to support decision-making by simulating and evaluating different operational scenarios. Multiple data sets are integrated to proactively optimize mission planning.

QINETIQ

Comprehensive Services for the Entire Aerostat Lifecycle

Why Choose QinetiQ Aerostat Solutions?

Proven Track Record
Our aerostat technology has a history of successful deployments, supporting reliable, real-time surveillance in demanding environments worldwide.

Scalable & Adaptable Solutions
Whether you need a small tactical system or a strategic, long-endurance platform, QinetiQ Aerostats can be tailored to fit your operational environment.

NATO-Compatible Communications
Seamlessly integrate with NATO systems for enhanced collaboration and intelligence sharing, supporting multinational defense operations.

Our Full-Service Support Includes:

- **Mission Planning & Consultation:** Our team of experts collaborates with you to design mission-specific aerostat solutions that meet your operational needs.

- **System Integration & Customization:** Tailored payload integration and system customization ensure your aerostat is equipped with the right sensors and communication tools.

- **Training & Field Support**: We provide in-depth training programs and on-site technical support, ensuring your team can operate the system with confidence

- **Maintenance & Lifecycle Management**: From deployment to decommissioning, QinetiQ offers comprehensive maintenance and lifecycle support, ensuring your aerostat always remains mission-ready.

- **Turnkey Operations:** Our Aerostat operations utilize Secure, Persistent & Aware Data Ecosystem (SPADE), to maximize mission success.

SPADE is QinetiQ's proprietary decision-support to enhance strategic operational planning for defense and security. SPADE provides comprehensive insights and analytics to support decision-making by simulating and evaluating different operational scenarios. This includes:

- **Decision-Support Engine**: SPADE simulates complex mission environments, enabling decision-makers to assess different scenarios and optimize resource allocation of personnel, equipment and infrastructure – ensuring organizations can meet their objectives effectively.
- **Scenario Planning:** It provides a detailed simulation environment to test various scenarios to allow defense and security organizations to evaluate the potential outcomes of different strategies before deployment.
- **Operational Risk Assessment:** SPADE assists in assessing risks with various strategic or tactical decisions, providing decision-makers with necessary information to enhance mission success.
- **Integration with Existing Systems:** SPADE integrates with existing defense and security systems making it a flexible tool that enhances current capabilities.

Ready to elevate your surveillance and security capabilities?
Contact us today to learn how QinetiQ Aerostat Solutions can be tailored to meet your mission needs.

Aerostats@us.qinetiq.com | www.qinetiq-us.com/aerostats

www.QinetiQ.com
Copyright QinetiQ, Inc. 2024