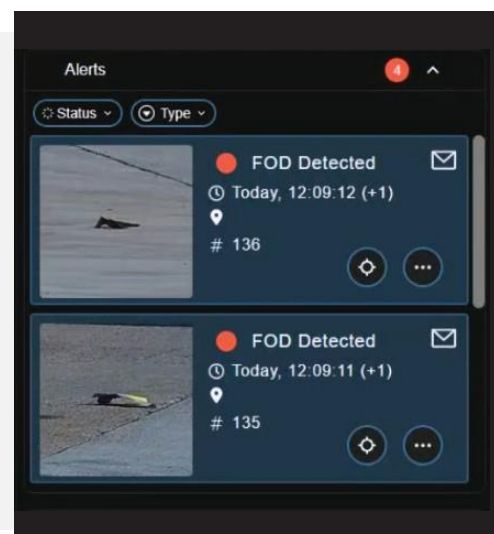# AiPRON FOD

Enhancing Safety and Efficiency on the Apron

The apron is one of the busiest and most complex areas of an airport, where aircraft, ground support equipment, and personnel operate in close proximity. Even a small piece of Foreign Object Debris (FOD) can pose serious risks to safety, disrupt operations, and impact financial performance. At ADB SAFEGATE, we understand the critical importance of keeping apron areas safe, efficient, and disruption-free because every second counts in aviation.

Our innovative **AiPRON FOD Detection System** is specifically designed to address the unique challenges of this high-traffic environment. By providing continuous, real-time monitoring and detection, the system helps airports proactively manage FOD risks, streamline apron operations, and ensure the safety of aircraft, equipment, and personnel.

KEY FEATURES AND BENEFITS

- Detects FOD down to 3x3x3 cm and up to 5m
- Detects debris located up to 100 m from camera
- Differentiates between vehicles, wildlife & FOD
- External Web HMI for easy interaction
- Alarms displayed with associated information (timestamp, location of the object, and image with precise object size)

Cost-Effective Apron Safety

- Protects aircraft and ground support equipment from expensive repairs and downtime caused by undetected debris.

- Reduces downtime for manual inspections, allowing ground crews to focus on other critical tasks.

- Improves operational efficiency, leading to faster turnarounds and fewer delays.

Advanced Technology for Apron Challenges

- Utilizes AI-powered detection, and advanced sensors to identify FOD in busy and cluttered apron environments.

- Capable of detecting even small debris that could cause damage to aircraft or equipment.

- Scalable and adaptable to the unique layout and requirements of apron areas at any airport.

Supporting Compliance and Consistency

- Aligns with ICAO and FAA standards for FOD management, helping airports meet global safety requirements.

- Demonstrates your airport's commitment to safety and innovation, ensuring consistent performance for automated FOD detection.

Safety in Every Corner

- Real-time detection of FOD across apron areas ensures a safer environment for aircraft, ground handling equipment, and personnel.

- Operates effectively in different weather and lighting conditions, providing uninterrupted safety coverage.

- Minimizes reliance on manual inspections by leveraging advanced automation, reducing the risk of human error in high-pressure environments.

Streamlined Apron Operations

- Automated detection minimizes delays caused by FOD-related incidents, keeping apron activities running smoothly.

- Real-time alerts enable immediate response to debris, preventing disruptions to aircraft turnaround times.

- Fully integrates with apron management systems to support seamless communication and decision-making.

FOD cost the industry an estimated $22.7B every year[1]

Source: 2023 FAA Report on FOD. DOT/FAA/TC-22/47

A Smarter Apron, A Safer Airport

At ADB SAFEGATE, we understand that the apron is the heart of ground operations, where efficiency and safety are paramount. AiPRON FOD empowers airports to take a proactive approach to FOD management, ensuring a safer, more efficient apron environment.

By reducing risks, enhancing operational flow, and delivering long-term cost savings, this solution helps airports meet the demands of modern aviation while improving the overall passenger experience. Together, we can keep your apron—and your airport—running at its best.

AiPRON FOD is part of ADB SAFEGATE's Intelligent AiPRON suite of software solutions bringing digitalization and intelligence to the apron.

AiPRON 360 | AiPRON Resource | AiPRON Manager | AiPRON Connect | AiPRON FOD

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