

AIMS – Airside Incursion Monitoring System

A.U.G. Signals Ltd. (AUG) has created a proactive wildlife and safety management tool for airports. Using a unique radar-based system, AUG's **Airside Incursion Monitoring System (AIMS)** provides **continuous early detection, identification and tracking** of human, wildlife and vehicle incursions with immediate notification for operators. AIMS creates **archived, informative and easily accessible data** to identify intrusion trends and problem areas. Fully customizable, AIMS provides airports with a comprehensive incursion monitoring and safety management tool to meet unique security needs.

AIMS runs the same award-winning technology used in AUG's Large Animal Detection System (LADS) which received an Intelligent Transportation Systems Society of Canada (ITS Canada) Award of Excellence in 2013, in recognition of AUG's significant advancement of ITS services.

Features and Benefits

AIMS employs state-of-the-art detection technology that provides users with several key features and benefits.

Features:

- Powerful radar detection providing persistent surveillance to accurately identify human, wildlife and vehicle incursions
- Immediate notification and tracking of all incursions
- Inclusion and exclusion zone capabilities
- Continuous airside monitoring throughout the broad, 360° scanning range of the AIMS system, providing real-time tracking of intrusions even after they have breached the perimeter
- Enhanced image capture directed by radar results to aid operators in classifying, validating and identifying incursions



Benefits:

- Early detection and warning system to proactively identify and manage airside safety threats
- Archived, informative and easily accessible data to help identify incursion trends and problem areas on airport property, allowing for targeted safety adjustments onsite
- Automatic reporting and tracking of incursion events 24/7 with remote access for operators
- Low false alarm rate resulting in highly accurate incursion reporting and data collection
- Easy installation and low maintenance requirements

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How Does AIMS Work?

AIMS runs on AUG's award-winning animal detection technology. It utilizes a 360-degree scanning radar that operates in all weather and environmental conditions. Integrating this radar with cameras and advanced processing technology, AIMS provides operators with advanced detection, accurate tracking and minimal false alarms. This allows operators to perform persistent surveillance of airside zones that provides easily accessible and informative data about incursions on a continuous basis. As long as an incursion is present, AIMS continuously tracks it and provides constant informative alerts to operators. AIMS' intelligent cued image capture also provides visual confirmation of the incursion.

A.U.G. Signals Ltd.

A.U.G. Signals Ltd. is a fully Canadian owned company headquartered in Toronto, ON. Incorporated in 1986, AUG has grown from its origins as an aerospace and defence technology consulting and research & development firm to become a global provider of innovative technology solutions addressing customer needs in the intelligent transportation, safety, security & surveillance sectors. For more information, visit www.augsignals.com.

Radar Specifications

General

Maximum coverage (per unit)	1400m; 1.54 km ²
Target Types	Vehicles, animals
Target Velocity	0.1 to 50 m/s
False Alarms	< 1 per 24 hrs
Misdetection Rate	1 per 10000
Input Power	24 VDC
Radiated Power	Safe for human exposure
Dimensions:	
Radar	33cm (h) x 43cm (dia)
Control box	39cm (h) x 34cm (w) x 20cm (d)
Weight (combined)	15kg

Environmental

Temperature	-35°C to +60°C (operating) -40°C to +70°C (storage)
Humidity	50% ± 5 to 95% ± 4, non-condensing
Altitude	Up to 4500m
Vibration	MIL-STD-810F
Wind	Up to 120 km/hr
Weather Sealing	Weather resistant (rain, snow, dust, sand, salt spray)
Power Consumption	75 W
Environmental Ratings	NEMA 4
Ratings (Radar)	FCC Class B, EN 301480, Parts 1 & 3; CE: EN 60215 EN 300019-1-4 (Class 4.1E with -40°C) EN 300019-1-5 (Class 5.2, including mechanical class 5M3)

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