

OpsBOSS™

Runway Incursion Warning System, Real-Time Flight Surveillance Display and Fleet Tracking Solution



In-Vehicle Runway Incursion Warning System, ASDE-X and Vehicle Tracking Display for Laptops or Tablets

OpsBOSS™ Runway Incursion Warning System (RIWS) is an in-vehicle application that alerts a driver of a vehicle of a potential runway incursion **BEFORE** the vehicle makes entry into the runway safety area. OpsBOSS™ improves safety and efficiency by combining an FAA Advisory Circular (150/5210-25) compliant RIWS with real-time ASDE-X data display, fleet tracking capabilities and sub-second GPS positional data on high resolution airport maps and aerial imagery to situational awareness.

RUNWAY INCURSION PREVENTION

OpsBOSS allows airports and airlines to improve safety of vehicle operations airside by proactively alerting a driver of a potential incursion into a runway or any airport defined hazardous area. Utilizing the airports own AutoCAD files or aerial imagery, OpsBOSS provides the highly accurate mapping and position position information available.



BENEFITS

- Low cost FAA Compliant RIWS
- Available for Windows, iOS and Android
- Real-time ASDE-X data display
- Improved situational awareness
- Precision GPS and sub-second update refresh rate
- Fleet tracking inside and outside the airports operations area.
- Interfaced with FAA Certified Vehicle Movement Area Transponders (VMAT)
- Provides instant benefit for emergency operations, when conducting 139 inspections and airfield construction activities
- Available with low-cost 4G/LTE data plans
- Can be installed on existing in-vehicle devices
- Eligible for funding via AIP or PFC grant programs

Runway Incursion Warning System (RIWS)

OpsBOSS™ Runway Incursion Warning System (RIWS) and Common Operations Picture (COP) display is a mobile based application that provides instant situational awareness to personnel operating in the movement area with advanced logic to alert of potential incursions into runways and other critical safety areas of the airport. OpsBOSS™ is the first tool to combine traffic visualization and alerting algorithms that comply with the FAA's Advisory Circular AC 150/5210-25.

Technical Specifications

Regulatory Compliance Operating System(s)	FAA Advisory Circular 150/5210-25 Windows 7, 8, 10 and Apple iOS 9, 10
Accuracy	3m Horizontal Accuracy 95%
Maximum Simultaneous Users	Up to 500
Surveillance Data Sources	FAA SWIM, ASDE-X, Commercial Data Sources and Eurocontrol Asterix 10, 20, 21
Max Inputs	6
Latency	<450ms
Wireless Networking	3G/4G – Carrier agnostic
Track Data Logging Capacity	72 hours in mobile device and 30 days at the server
Deployment Architecture	Cloud hosted or site implementation
GIS File Compatibility	ESRI Shape Files from the airports own engineering department
User Selectable Layers	Maximum of 16
Base map configurations	Maximum of 5
Alerting Capability	Based on user defined geo-fencing – inclusive or exclusive
Vehicle Tracking	Available in any area of the airport or surrounding areas, not only the AOA
User Interface	Design based on human factors studies used to develop A350 cockpit displays



OpsBOSS RIWS
Picture Courtesy of FAA
Atlanta Hartsfield-Jackson International Airport



About INDMEX Aviation

INDMEX Aviation is a certified ACDBE/DBE firm that specializes in the development of innovative, low-cost systems that improve safety and efficiency for airports, airlines and air navigation service providers. INDMEX solutions are in use at some of the busiest airports in the world helping ensure the safety of over 400 million passengers annually. With representatives or offices in the United States, England, Spain, Greece and India, INDMEX offers solutions worldwide.

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