


AeroBOSS™
Runway Incursion
Warning System
(RIWS) LITE

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 Made In The USA

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AeroBOSS™ Runway Incursion Warning System (RIWS) LITE

The AeroBOSS™ RIWS LITE is part of Leonardo's AeroBOSS software suite that provides airports real-time situational awareness, monitoring, and alerting to improve safety, resource coordination, and performance.

AeroBOSS Runway Incursion Warning System (RIWS) LITE is portable, low-cost, in-vehicle technology that prevents runway incursions. AeroBOSS RIWS alerts a vehicle driver of potential incursions before they enter the Runway Safety Area (RSA) or any other identified hazard areas at an airport. AeroBOSS RIWS LITE uses the same logic and technology as the AeroBOSS RIWS platform to meet key requirements of the FAA Advisory Circular (150/52-10-25) Revision 2.

AeroBOSS RIWS LITE uses precision GPS receivers and software algorithms that are fully compliant with the FAA AC requirements. The AeroBOSS RIWS LITE system is designed as a portable, low-cost RIWS solution for airport fleets of all sizes, for use in contractor vehicles or in reserve or seasonal apparatus.

Key Elements of AeroBOSS™ RIWS LITE

- › All equipment installed in vehicle
- › Portable from vehicle to vehicle
- › Requires only a 12 V DC power supply
- › No need for airfield receivers or specialized equipment
- › Alerts are based on distance, heading, and speed of vehicle
- › Can be configured as standalone in the vehicle or part of a fleet/team command and control
- › All alerts and alert zones are customizable
- › Can be configured to alert when low visibility operations are in place
- › Geofences are based on airport's own GIS files
- › Provides custom audible and visual alerts using up to eight (8) LEDs
- › Accommodates a wide range of notifications through an array of display color configurations
- › Ensures RIWS alerts are not dependent on cellular or wireless connectivity
- › Allows remote control of runway safety areas





System OK - Two Green



Approach Hold Short - Two Yellow



Within 30' of RSA - Full Yellow



Approaching RSA - Two Red

AeroBOSS™ provides real-time situational awareness, monitoring and alerting through an integrated software suite. AeroBOSS improves safety, resource coordination and performance for airports and their stakeholders. AeroBOSS is an enterprise level system that is composed of a set of modules that allow airports to deploy the right tools for each department's specific needs without burdening users with unnecessary complexity. Some of the busiest airports worldwide depend on AeroBOSS to safely manage surface operations and prevent runway incursions in all weather conditions.

Benefits of AeroBOSS™ RIWS LITE

- › Built-in vehicle tracking
- › Integrated GIS engine for geofence alert areas
- › Unlimited number of vehicle alerts, including over-speed and terrain warnings
- › Important ability to alert the drivers when ILS-protected areas are active
- › Essential data sharing is supported with the Safety Management Systems (SMS)
- › Event based data interface with most major Safety Management Systems (SMS)

Technical Specifications of AeroBOSS™ RIWS LITE

- › Compliant with SafetyNet Logic in FAA AC 150/5210-25
- › Fifty-three (53) Channel GPS Receiver (GPS, WAAS, GLONASS, GALILEO, BEIDOU)
- › GPS Accuracy of 2.5 or better than 95%
- › Position update rates configurable between 5hz to 10hz
- › Cold startup time of < 90 seconds
- › Operating Temperature -20°C to 60°C / -5.8°F to 140°F
- › Eight (8) independent color LEDs
- › Supports ILS operations notifications
- › Optional vehicle engine telematics and fleet management through OBDII port connection



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