


AeroBOSS™ Runway Incursion Warning System (RIWS)



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 Made In The USA

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AeroBOSS™ Runway Incursion Warning System (RIWS)

AeroBOSS™ RIWS 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) is in-vehicle technology that prevents runway incursions. AeroBOSS RIWS alerts drivers of potential incursions before they enter the Runway Safety Area (RSA) or any other identified hazard areas at an airport. AeroBOSS RIWS is compliant with the FAA Advisory Circular (150/52-10-25) Revision 2.

AeroBOSS RIWS integrates real-time flight surveillance data from the FAA SWIM program and ADS-B surveillance sources. It uses GPS receivers that exceed FAA AC requirements and the fully compliant RIWS software that can be used on Windows, Android or Apple iPads, or on iPhones. The AeroBOSS RIWS provides ground collision alerting and runway collision alerting for surface vehicles and is the first RIWS solution to be used by FAA Tech Ops teams. With proven stability and reliability, AeroBOSS RIWS solution has been in operation at airports of all sizes, including large hub facilities, in the United States.

Key Elements of AeroBOSS™ RIWS

- › Alerts are based on distance, heading and speed of vehicle
- › Can be configured as standalone in the vehicle or as part of a fleet/team command and control
- › Uses touch screen capabilities to pan/tilt/zoom map views
- › All alerts and alert zones are customizable
- › Visual alerts display location of vehicle in movement area textually
- › Map is based on airport's own GIS files
- › Displays data from ASDE-X/ASSC, A-SMGCS, ADS-B and vehicle tracking data
- › Ensures RIWS alerts are not dependent on cellular or wireless connectivity
- › Allows remote control of runway safety areas
- › Is compatible with Windows, iOS, and Android operating systems





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

- › Built-in vehicle tracking
- › Integrated GIS engine for display of map-based data
- › Unlimited number of vehicle alerts, including overspeed and terrain warnings
- › Important NOTAM data can be displayed on map
- › Essential data sharing is supported with Safety Management Systems (SMS)
- › Provides real-time moving map display with off-line capabilities

Technical Specifications of AeroBOSS™ RIWS

- › Compliant with FAA AC 150/5210-25 (Dec. 2019 Rev.)
- › Fifty-three (53) Channel GPS Receiver (GPS, WAAS, GLONASS, GALILEO, BEIDOU)
- › GPS accuracy of 2.5 meters or better than 95%
- › Position update rates configurable between 5Hz to 20Hz
- › Cold startup time of < 90 seconds
- › MIL-STD-461G Certified
- › IP65 Certified
- › Operating Temperature -20°C to 60°C / -5.8°F to 140°F
- › NIHTSA Certified Vehicle Mounting Systems
- › Compatible with ESRI GIS shape files
- › Compatible with Asterix CAT 10, 20, 21, 30, 33, FAA SWIM and Commercial Data Services
- › Optional external LED alert annunciator panel



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