



# SafeNav™ POWERED BY GARMIN™

## Airport Vehicle Navigation & Runway Incursion Avoidance System

The National Transportation Safety Board (NTSB) and the Federal Aviation Administration (FAA) have made avoiding runway incursions one of their top priorities to help improve airport safety.

The FAA emphasizes that special attention should be given to airside vehicle operations during low visibility conditions, such as rain, snow and fog, which may obscure airport markings and diminish vehicle operators' situational awareness.

To address this significant safety concern, I.D. Systems and Garmin have teamed together to introduce a new airport safety product: **SafeNav™** POWERED BY **GARMIN™**.

SafeNav™ is an on-vehicle GPS-based navigation and alert system designed to provide airport vehicle operators with real-time situational awareness—regardless of external conditions—to help avoid runway incursions.

SafeNav™ incorporates:

- Built-in “moving maps” of over 950 U.S. airports—based on the airport diagrams used by aircraft equipped with Garmin's SafeTaxi® system
- Real-time tracking of vehicle location on the airport via a 4.3-inch, wide-format, touchscreen display
- Built-in geo-fencing algorithms to define airport runways
- Risk-weighted color coding and automatic audible alarming to alert airport vehicle operators visually and aurally to potential runway incursions

SafeNav™ is available both as a standalone safety device and as a complementary extension of I.D. Systems patented AvRamp® solution—a TSA-tested, FAA-approved wireless Vehicle Management System that provides a wide range of airport vehicle safety, security, and operational functions, including: automatic on-vehicle driver authentication and access control; electronic safety inspection checklists; speed monitoring; impact sensing; remote location tracking; route history playback; remote vehicle shutdown/lockout; and fleet productivity optimization tools.

Together, SafeNav™ and AvRamp® support many of the FAA's “Best Practices for Airfield Safety”, including:

- Providing current airport diagrams for use in airside vehicles
- Training vehicle drivers where to look for airport traffic when pilots and the control tower are silent
- Improving airport safety by enhancing situational awareness
- Ensuring that personnel with access to vehicles in the airport area of operations (AOA) have appropriate authorization and driver training



*SafeNav's color display and audible alarm automatically alert airport vehicle operators if they are approaching a runway—even at night or in bad weather.*



*SafeNav™ not only aids experienced drivers at night and during periods of low visibility, it also serves as a critical safety tool for new or transient vehicle operators who are unfamiliar with the airport's taxiways and runways.*