

LiDAS – Life Detection Assistance System



Advanced child-check system for pupil transportation safety

A trip to school and back must always be a safe one. Aside from the responsibility of getting children safely to their destination, a school bus driver is also mandated to make sure no child is left behind on the vehicle at the end of the day. To support the drivers in this endeavor, enhance child safety, and give parents that extra peace of mind, we developed LiDAS. Based on low-energy radio frequency technology, this Life Detection Assistance System has been designed for advanced vehicle occupant detection. It efficiently scans the vehicle and can sense even the sleeping motion of a child or spot the ones hidden in blind corners.

This cutting-edge complete solution includes smart sensors with a patented algorithm mounted on the vehicle's ceiling, a central control unit, a driver interface showing the system status, and data management software.



Why choose our system?

- LiDAS can “see” children hiding underneath a seat, even if covered by a blanket, etc.
- Fully automated, independent of human actuation, lighting, mechanical, or audible disturbances
- Highly customizable (detection escalation, pre-route, post-route and cyclic checks)
- Driver interface included
- Remote access to communicate with the system
- Various notification methods possible: text message, alarm, horn honking, flashing lights

Product range

Occupant Detection Sensing Solutions

How does LiDAS work?

- The smart sensors are mounted in the ceiling of the vehicle.
- The sensors send radio signals that are reflected off living beings present on the vehicle. The patented algorithm can even detect the breathing of a sleeping child.
- A central control unit manages the function of the system.
- The system is set to scan the bus automatically with a configurable delay time once the ignition is off.
- Once the bus is parked and the ignition is turned off, the system follows a customizable notification strategy. If LiDAS detects signs of movement, a pre-determined alert notification goes in effect to driver, fleet manager, etc.
- A driver interface always displays the status of the system.



Need a customized solution?

If you want to talk about customization options, price, availability or other related to this product, drop us an email at IEE-LiDAS@iee.lu.

For more information visit us at www.iee-lidas.com.



About Us

IEE is a worldwide pioneer in passenger presence detection and one of the leading suppliers of advanced automotive interior sensing solutions. Founded in 1989 and headquartered in Luxembourg, it has operations in Europe, America and Asia. The innovation driven company has a long history in developing and manufacturing cutting-edge sensing systems for automotive industry, building management and eHealth. IEE employs 4,100 people worldwide and more than 10% of the company's workforce is engaged in Research & Development.