

Reducing blind spots and improving driver visibility are important issues for operators of road-going vehicles. Over the past few years, safety devices such as additional mirrors or camera systems that give wider viewing angles have become commonplace and even mandatory under blind spot legislation.

Despite an increase in visibility, collisions with other vehicles, fixed objects, cyclists, workers and even pedestrians remain high. Implementing collision avoidance systems allow for drivers to be more aware of imminent collisions by providing alerts in response to the surrounding environment, visibility to blind spots, and correcting poor driving habits that may result in an accident.

Preventing accidents is simplified with these solutions.

Product Highlights – Brigade

Brigade Backscan Ultrasonic Detection

Brigade's Ultrasonic proximity sensors minimize both vehicle damage and collisions with pedestrians, cyclists, or objects. These are ideal for trucks operating in confined spaces or maneuvering at low speeds. The detection system alerts the driver of obstacles close to the vehicle – whether moving or stationary. An audible and/or visual in-cab warning informs of distance whilst an optional external speaking alarm can be added to alert cyclists and pedestrians that the vehicle is turning.

- Kit Includes: Four sensors, visual and audible display, a variety of degree (0 - 11) flush mount fixings, underslung fixings, waterproof control box, display cable, and sensor cables
- Detection range is 8.2 feet to 2 feet, and is adjustable via dip switch
- System is activated by rear-gear
- Obstacles are detected in under 200 milliseconds
- Environmental Learning Mode prevents false alarms from tow-hooks or other ancillary equipment that intrudes in the first 3.3 feet of the detection zone

- Can be fitted to tractor-trailer vehicles with additional coiled cables
- Additional scanning options available to build onto the Backscan: Frontscan, Cornerscan, and Sidescan

Brigade Backsense Fixed Radar Detection

Backsense heavy-duty radar sensor systems are designed to detect people and objects in blind spots, significantly reducing accidents. They detect stationary and moving objects, providing the driver with in cab visual and audible warnings to alert the driver whose attention cannot be focused on all danger areas simultaneously. Backsense obstacle detection sensors work effectively in harsh environments and in poor visibility including darkness, smoke and fog. Backsense radar uses Frequency Modulated Continuous Wave (FMCW) technology, transmitting a continuously varying radar frequency signal with unique time stamps to each instance of the wave. The time of the returning wave is referenced to the stamp without the radar needing to pause transmitting. This gives more accurate detection than alternative radar products using Pulse Radar technology that transmit a burst of radar and then listens for the returning wave.

- Kit Includes: Sensor, visual and audible display, and 29.5 foot cable
- Maximum detection range is 19.6 feet depth, and 15 feet width
- Bespoke detection areas can be set to calibrate-out fixed objects or bodywork
- Controlled beam pattern to minimize false warnings
- Effectively detects stationary, moving and multiple objects
- Sensor is IP69K rated
- One activation input
- One trigger output
- Audible/Visual display alerts in five stages of severity
- Suitable for both on and off-road applications

Product Highlights – Mobileye

Mobileye Collision Avoidance System

The Mobileye 630 is an advanced driver assistance system (ADAS) that helps avoid collisions by providing drivers with a combination of visual and audible warnings. The Mobileye 630 system uses an artificial vision sensor to constantly monitor the road of pedestrians, cyclists, and other vehicles. The system serves as an extra set of eyes on the road to alert a driver if a collision is imminent. Not only do these warnings help drivers avoid dangerous road situations, they also help drivers improve their driving behaviors. The Mobileye System meets the guidelines established by the NHTSA for Foward Collision and Lane Departure Warnings, setting the standard for collision avoidance systems worldwide.

- LED display on the EyeWatch for improved visibility
- No ongoing subscription fees – all alerts are in real time, cab-only
- Integrates with most fleet management systems and ELDs
- Very little driver training required resulting in quick implementation timelines and minimal loss of operational hours
- Affordable and cost effective – ROI is typically 12 months or less

- Reinforces safe driving habits helping to reduce collisions and subsequent insurance premiums, as well as fines for compliance
- Safer driving habits, such as a reduction in sudden breaking, can also contribute to a reduction of up to 15% in fuel consumption
- Reducing collisions saves money on yearly repairs or new vehicle purchases
- Mobileye 630 systems integrate with Android and iPhone for enhanced display options.
- Installation of 630 may require an Enhancement Box on some vehicles – those without J1939, or to integrate additional functionality like audio override or a seat shaker

Driver Assistance Alerts:

- **Forward Collision Warning:** Alerts the driver to an imminent rear-end collision with a car, truck or motorcycle
- **Lane Departure:** Alerts the driver if the vehicle leaves the lane without the use of a turn signal. System also notifies the driver whether this feature is enabled or not active due to low speed (< 35mph)
- **Pedestrian & Cyclist Collision Detection & Warning:** Notifies the driver of a pedestrian or cyclist in the danger zone, and provides a warning of a possible collision with a pedestrian or cyclist
- **Headway Monitoring & Warning:** Informs the driver of the time, in seconds, to the vehicle in front. System switches from monitoring to warning should that time become unsafe
- **Speed Limit Indicator:** Indicates the posted speed limit and flashes should the vehicle exceed that limit
- **Intelligent High Beam Control:** Automatically turns the high beams on/off depending upon the level of light and relative distance from other traffic
- **Turn Signal Reminder:** Alerts the driver if one or both blinkers remain active for an extended period of time
- **Low Visibility Indicator:** Notifies the driver during low visibility conditions; the system will continue to work, however, its ability to detect may be limited

Top Movers

PART NUMBER	DESCRIPTION
BS-4000W	BRIGADE BACKSCAN ULTRASONIC DETECTION SYSTEM - REAR REVERSING SENSOR SYSTEM WITH TWO YEAR WARRANTY
BS-7060	BRIGADE BACKSENSE FIXED RADAR OBSTACLE DETECTION SYSTEM WITH TWO YEAR WARRANTY - DETECTION RANGE 6M / 20'
BS-8000	BRIGADE BACKSENSE PROGRAMMABLE RADAR OBSTACLE DETECTION SYSTEM - DETECTION RANGE 30M / 98' THREE YEAR WARRANTY
CAB000743	MOBILEYE 6-PIN, 2 WIRE INTERCONNECT CABLE
EYENET0001	MOBILEYE 8 CONNECT - EYENET ADAPTER KIT
PP807220	MOBILEYE 8 CONNECT - AI-POWERED, COLLISION AVOIDANCE SYSTEM

Downloads

- **Brigade Backsense Fixed Radar Detection Leaflet**
- **Brigade Backscan Ultrasonic Detection Leaflet**
- **Mobileye 2023 ME8 Brochure**
- **Mobileye Implementing Technology Case Study**
- **Mobileye ME8 Glovebox Reference Card**
- **Mobileye Utility Fleet One-Pager**

Warranty Information

- Brigade has a **2-Year Warranty**
- Mobileye has a **1-Year Warranty**

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