Mobileye® is the technological leader in the area of advanced image sensing and processing technology for automotive applications. With over a decade invested in extensive R&D, Mobileye has gained an unprecedented understanding of the diverse challenges that face drivers on the road and how to keep them safe. This unequalled expertise has made Mobileye the recognized global pioneer in collision avoidance systems. As evidence, Mobileye is the OEM (Original Equipment Manufacturer) supplier of such systems to many of the world’s leading automobile manufacturers.

Rosco’s bus integration of the Mobileye Collision Avoidance with Pedestrian Side-Sensing is an example of how the unique safety requirements of transit, school, and other bus operations can be addressed with proper application of evolving technology. Applications beyond bus such as in Refuse Vehicles, Walk-In Vans, Trucks, and other vehicle types are possible as well.

Rosco® is the largest supplier of automotive vision safety products to the bus and truck marketplace. For over a century, Rosco’s goals have remained the same: Commitment to producing the highest quality automotive products and providing the superior service customers have grown to expect. Today, while Rosco products are on all school buses manufactured in North America, Rosco supplies mirrors, visors, and digital vision products to nearly every commercial bus, truck, military, and specialty vehicle manufacturer as well.
REDUCE PEDESTRIAN COLLISIONS, SAVE LIVES...

The Mobileye® Collision Avoidance System with Pedestrian and Cycle Side-Sensing is the latest technological advancement for preventing vehicle to pedestrian incidents. Dynamic bus operating conditions in busy city intersections demand the highest of visibility when approaching pedestrians and complex bus turning patterns. Now available from Rosco Vision Systems, this new multi-vision-sensor solution includes heavy-duty exterior vision sensors and housings capable of withstanding the rigors of bus operation and bus wash environments, while displaying driver alert information that is easily seen and understood.

This new solution yields amazingly simple LEFT, CENTER, and RIGHT alarm interfaces that communicate audio and visual alerts to drivers based on the directional location of the pedestrian and severity of the threat. Whether a straightaway or turn, the multi-vision-sensor system is tuned with sophisticated algorithms and years of Mobileye® experience to filter out pedestrian proximity that is non-threatening, while locking in and following pedestrian proximity and course if deemed to be collision likely. Utilizing an intelligent vision sensor that works like a bionic eye, the system identifies a diverse and extensive variety of potential dangers on the road, such as vehicles, cyclists, pedestrians and more. The distance and relative speeds of these objects are continuously measured to calculate the risk of the driver colliding with them. Even lane markings and traffic signs are detected. When danger is imminent, visual and audible alerts warn the driver to make necessary corrections in sufficient time to avoid potential collisions or mitigate their severity.

Fleet managers have installed the Mobileye® Collision Avoidance System in some of the world’s best-run fleets including cars, trucks, service vehicles and taxis, in both rural and urban environments. These global organizations have experienced significant reductions in incidents, collisions and associated costs. Your fleet can accomplish the same.

INTERSECTION COMPLEXITY ON “WARP SPEED”

Pictured above is an example of one turn of likely thousands this bus will make over the course of a week in a big, bustling city. With the vision sensors in the front and sides of the bus (shown in the color codes to the right) to track possible collision courses and alert the driver in time to avoid or lessen the crash severity.

The Collision Avoidance System for commercial vehicles includes three (3) display modules that alert the driver, visually and audibly, when the bus is in motion, and a pedestrian and/or cyclist is in one of the danger zones around the bus.

PEDESTRIAN AND CYCLE SIDE-SENSING

In addition to all the benefits of the original Mobileye Collision Avoidance System, this unique, multi-vision-sensor system provides drivers with alerts when pedestrians and cyclists are in the danger zones on the side of the bus. Pedestrians and cyclists often are not seen by the driver when the bus is making turns on tight, busy city streets. The addition of the pedestrian and cycle side-sensing alerts the driver to pedestrians and cyclists in the bus’ path, before an incident occurs, giving the driver time to react and take corrective action. These alerts can help save lives and improve your organization’s safety record.

SYSTEM WARNINGS AND FEATURES

FORWARD COLLISION WARNING
Alerts the driver to an imminent rear-end collision with a car, truck or motorcycle moving at any speed

HEADWAY MONITORING / FOLLOWING TIME
Alerts the driver to an imminent rear-end collision with a car, truck or motorcycle moving at any speed

LANE DEPARTURE WARNING
Alerts the driver if vehicle leaves the lane without use of the turn signals *Active over 30 MPH

PEDESTRIAN AND BICYCLE COLLISION WARNING
Alerts the driver of an imminent collision with a pedestrian or bicyclist **Active under 31 MPH

SOLID YELLOW DISPLAY ALERTS THE DRIVER THAT A PEDESTRIAN OR CYCLIST IS DETECTED AROUND THE BUS BUT IS IN A SAFE AREA. THE DRIVER MAY CONTINUE OPERATING THE BUS.

BLINKING黃 DISPLAY ALERTS THE DRIVER OF A PEDESTRIAN OR CYCLIST THAT IS IN THE BUS COLLISION TRAJECTORY. DRIVER SHOULD STOP THE BUS IMMEDIATELY.

1. RED ZONE INDICATES THE BLIND SPOT CREATED BY THE A-PILLAR DURING LEFT HAND TURNS.
2. GOLD ZONE INDICATES THE AREA COVERED BY THE REAR, LEFT AND RIGHT SIDE CAMERAS.
3. PURPLE ZONE INDICATES THE AREA COVERED BY THE FRONT, LEFT SIDE CAMERA.
4. GREEN ZONE INDICATES THE AREA COVERED BY THE FRONT, CENTER CAMERA.