Mobileye®
Shield+™

## Collision avoidance system for buses and large municipal vehicles

Mobileye Shield+™ is a collision avoidance system specifically designed to address the large blind spots, greater turning radii and other unique challenges that drivers of buses and large vehicles encounter daily on crowded city streets.

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Avoid Collisions with Vehicles, Pedestrians, and Cyclists

## Your drivers cannot have eyes everywhere. Our technology can help.

Mobileye Shield+ consists of two to eight vision sensors that are constantly monitoring the road ahead of the bus as well as its blind spots, on both sides of the vehicle and by the A-pillar and left mirror.
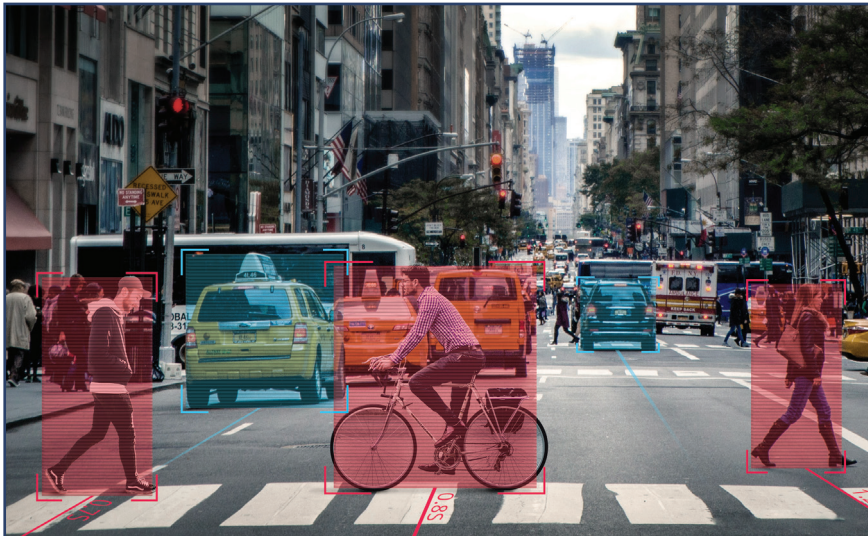
> "No Shield+ equipped buses were involved in any collisions with bicyclists or pedestrians."
>
> Active Safety-Collision Warning Pilot Study by Washington State Transit Insurance Pool[1]

Mobileye safety technology is powered by sophisticated machine learning and computer-vision algorithms that continuously analyze the driving environment to identify hazards including other vehicles, pedestrians, cyclists and motorcyclists. Upon detection, Mobileye Shield+ tracks them, and when necessary, issues visual and audio alerts in real-time to assist drivers in avoiding, or at least mitigating, collisions.
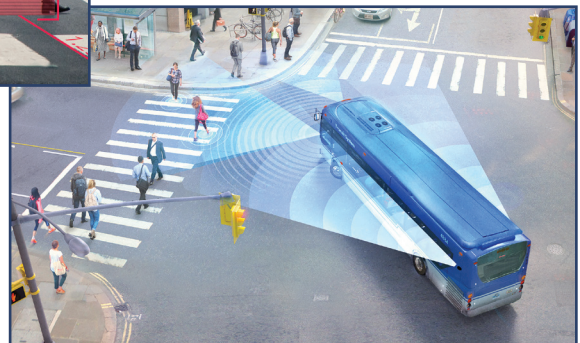
Avoid or Mitigate Collisions
Help prevent bumper-to-bumper or rear-end collisions in congested cities by equipping your vehicles with our breakthrough driver assistance technology.

Encourage Safe Driving
Help your drivers maintain a safe distance from the vehicle ahead with visual and audio alerts that warn them if the following distance becomes unsafe. Customize that safe following distance to fit your fleet needs.

Detect Pedestrians and Cyclists Ahead and in Blind Spots
Help avoid collisions with pedestrians, cyclists or motorcyclists with pedestrian collision warnings and blind spot detection.

Retrofit Your Existing Fleet
No need to wait for the purchase of new vehicles. Retrofit your transit buses, articulated buses, waste collection trucks and other large vehicles with Mobileye Shield+ advanced safety technology today.

Curb Collision Costs
Help tackle vehicle damage costs and the costs associated with collisions, harsh braking and distracted driving by equipping your vehicles with a robust collision avoidance system.

Map The Hot Spots in Your City
Support infrastructure changes in your city with data. Mobileye Shield+ gives you access to an online map[3] displaying the hotspots on transit routes.

Mobileye Shield+ Features

Blind Spot Detection & Collision Warning

Mobileye Shield+ has cameras placed around the vehicle continuously monitoring the driving environment in order to detect pedestrians and cyclists hidden in the vehicle's blind spots, and upon detection alerts the driver to take action.

A yellow visual signal warns the driver that a pedestrian, cyclist or motorcyclist has been detected in the vehicle's blind spot and to act with caution.

A red visual signal accompanied by an audio alert warn the driver of the risk of an imminent collision and of the need to take immediate preventative action.

Pedestrian & Cyclist Collision Warning (PCW)

Mobileye alerts the driver, during daylight, up to 2 seconds before a collision with a pedestrian or cyclist ahead or in blind spots, allowing enough time to react and, in most cases, prevent.

Headway Monitoring Warning (HMW)

Mobileye helps the driver keep a safe distance (measured in seconds) from the vehicle ahead by providing visual and audio alerts if this distance becomes unsafe. The definition of a 'safe' distance can be calibrated to fit your fleet needs.

Forward Collision Warning (FCW)

Mobileye alerts the driver up to 2.7 seconds before a collision with a vehicle or motorcycle ahead, allowing enough time to react and, in most cases, prevent.
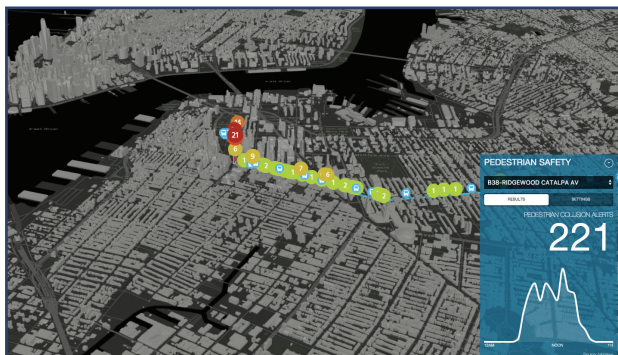
Lane Departure Warning (LDW)

Mobileye sends visual and audio warnings to the driver when it detects an unintentional deviation from the driving lane.

Hot Spot Mapping for Smart Cities

Mobileye Shield+ allows municipal fleet managers to access an online map[3] displaying the hot spots on transit routes based on the alert data. Leverage this valuable information for city infrastructure improvements.

> "30% of crashes could be averted with Advanced Driver Assistance Systems, such as forward collision warning/ mitigation, blind spot detection, and lane departure warning."
>
> Boston Consulting Group, 2015 [2]

[1] Findings of 'Active Safety-Collision Warning Pilot Study' by Washington State Transit Insurance Pool; full Study (including explanation of methodology) available at https://goo.gl/QzYUqK.

[2] Boston Consulting Group, "A Roadmap to Safer Driving Through Advanced Driver Assistance Systems", 2015. https://goo.gl/QiupQn

[3] The online map is provided by a third party partner (currently at no additional cost).

About Mobileye

Mobileye, an Intel Company, is a global leader in the development of computer vision and machine learning, data analysis, localization, and mapping technologies for Advanced Driver Assistance Systems and autonomous driving solutions. Our safety technology is integrated into hundreds of new car models from the world's major automakers: BMW, Audi, Volkswagen, Volvo, Nissan, Ford, Honda, General Motors and more.

The Mobileye Collision Avoidance System is available with a single, forward-facing vision sensor suitable for almost any vehicle, or in a multi-sensor solution designed specifically for large commercial vehicles with hazardous blind spots.

Fleet organizations worldwide have experienced significant reductions in collisions and associated costs with Mobileye. We can help your fleet achieve the same.
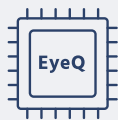
25+ Global automakers rely on Mobileye technology to make their vehicles safer

20M+ Vehicles worldwide are equipped with Mobileye technology

13 Automakers are already working with Mobileye to enable autonomous driving

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www.mobileye.com/fleets