MOBILEYE C2-270™
Our Vision. Your Safety.™

A collision prevention assistant at your service

Advanced camera alerts you of a possible collision before it happens

Mobileye C2-270 Safety Features
- Daylight Pedestrian Collision Warning, including Bicycle Detection
- Forward Collision Warning, both in Highway and Urban areas, including Motorcycle Detection
- Lane Departure Warning
- Headway Monitoring & Warning

Based on Mobileye's acclaimed vehicle, lane and pedestrian detection technologies

Optional connectivity to various Fleet Management and Telematic systems

High intensity visual indications via LED display, offering
- Vehicle detection indication
- Gauge for headway monitoring
- Color-coded alerts for all warnings

Fits all vehicle types: passenger cars, fleet vehicles, trucks, buses and all other kinds of vehicle

High availability, operating day and night in almost every weather condition

> **Mobileye Collision Prevention Systems are functionally effective. They detect reliably and warn the driver when necessary.**
>
> TNO Report, 2009

The Mobileye C2-270™ is a safety solution for collision prevention and mitigation. The system includes a smart camera located on the front windshield inside the vehicle. It utilizes Mobileye's vehicle, lane and pedestrian detection technologies to measure the distance to vehicles, lane markings and pedestrians, providing the driver with life-saving alerts.

The Mobileye C2-270 is never distracted, always looking forward and ready to warn the driver of sudden danger.

Pedestrian Collision Warning (PCW), including Bicycle Detection
Alerts the driver during daylight with visual and audio warnings of an imminent collision with a pedestrian or cyclist. 71% of pedestrian fatalities occur in urban areas, the Mobileye C2-270 issues a warning up to 2 seconds before a possible collision takes place allowing the driver enough time to react.

Forward Collision Warning (FCW), including Motorcycle Detection
Alerts the driver to an imminent rear-end collision with the vehicle or motorcycle ahead. Mobileye C2-270 calculates the Time To Collision based on the distance and the relative speed between the two vehicles. Studies showed that 1.5 seconds of early warning can prevent almost 90% of all rear-end collisions. FCW alerts the driver up to 2.7 seconds before a collision occurs, allowing enough time to react.

Lane Departure Warning (LDW)
Alerts the driver with visual and audio warnings when deviating unintentionally from the driving lane, a situation that may end in a run-off-road crash, rollover,

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etc. The system measures the distance from the vehicle's wheels to the lane markings on both sides. Studies conducted on Fleets showed a 65% decrease in all lane-departure related crashes using vision-based LDW systems.

Headway Monitoring & Warning (HMW)

Many drivers overestimate the headway to the vehicle in front, not realizing that, as their speed increases, the effective headway decreases, leaving them insufficient time to react. The headway warnings function provides an audio/visual alert when the headway becomes critically short. Distance-Keeping systems like the Mobileye C2-270 enhance driving safety and have the potential to reduce rear impact collisions by 57% according to different studies.

Pedestrian Collision Warning, which includes Bicycle Detection, alerts the driver when a pedestrian or cyclist enters the vehicle's path in dangerous proximity to the vehicle.

Forward Collision Warning, which includes Motorcycle Detection, alerts up to 2.7 seconds before an anticipated collision with a vehicle ahead.

Lane Departure Warning anticipates an unintentional deviation from the driving lane, and issues a directional alert.

Headway Monitoring assists the driver in keeping a safe driving distance, and issues an alert when the headway distance becomes dangerous.

System Components

- A windshield-mounted vision sensor unit with a compact High Dynamic Range CMOS (HDRC) camera and Mobileye's SeeQ2® image processing board
- High-quality audio alert buzzer
- User-friendly, high visibility Display and control unit, for visual directional warnings and numerical headway measurement display, with customization options.

Benefits

Prevents or mitigates collisions

Saves lives and prevents injuries

Reduces collision related costs

Improves driving habits

Enhances safe driving

Provides a tool for driver evaluation and training; helping drivers to develop a keen sense of the vehicle's position within the lane and in relation to other vehicles and pedestrians

Specifications

Vision sensor field of view: 40^0 x 30^0 (WxH)

Typical vehicle detection range: 80 meters

Input Voltage: 12 – 24Vdc

Operating Temperature: -35C to 80C

Real-time image processing at 15 FPS running on Mobileye's EyeQ2® vision system on chip

Adjustable Urban FCW

Adjustable LDW sensitivity

Adjustable timing of HMW audio alerts

Adjustable volume and display brightness

Automatic notification upon partial or non availability conditions, such as low visibility

High availability, including in inclement weather

Data interface options: CANbus, RS485 & J1939

Vehicle signal inputs: brakes, turn signals, speed, wipers, and high beam

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