

ACTIVE SAFETY - MONO VISION

Autoliv's Mono Vision Sensing System (MVSS) improves driver awareness thereby making driving more comfortable and reducing the risk of traffic accidents and fatalities. The system uses a small multi-functional camera mounted behind the rear-view mirror. An image processing system is connected to the camera, constantly observing and monitoring the traffic and issuing information and acoustic warnings to the driver. The system is capable of detecting and tracking vehicles, traffic signs and lane markings in front of the vehicle.



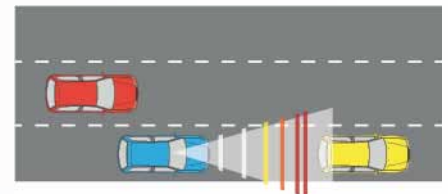
Automatic High Beam Switching

The vision system identifies on-coming vehicles within about 750 meters of the car and determines when the head lights need to be dipped in order not to blind the on-coming driver. Immediately before this point, the Autoliv's vision system automatically dips the head lights. Additionally, as soon as there is no risk of blinding on-coming drivers, the system automatically raises the head lights again. The same thing happens, when a vehicle with Autoliv's system approaches another vehicle from behind. In this case, other vehicles are identified when they are still approximately 450 meters away. In addition, if the car with Autoliv's system is driven in cities and other areas where there is sufficient ambient lighting, or the vehicle speed is below 30 km/h, the headlights are automatically dipped.



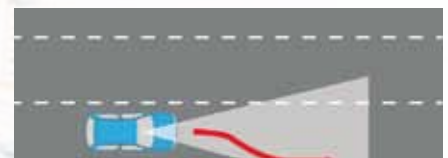
Forward Collision Warning (FCW)

The system continuously monitors the area in front of the vehicle to detect slow moving vehicles and other objects that the own vehicle is likely to hit if the driver does not detect them in time. In such cases, Autoliv's vision system alerts the driver by showing a warning on the instrument panel or in the optional Head-up Display together with a audible warning. In addition the brakes are put in an alert mode to minimize the activation threshold when the driver finally steps on the brake pedal.



Lane Departure Warning (LDW)

By monitoring the lane markings on the road, the system can check that the vehicle stays within its lane. If the driver changes lane without first using the turn indicator, he or she is warned by a small vibration in the steering wheel. This warning is effective through corners and in darkness when the headlights are switched on.



Traffic Sign Recognition

The system is an advanced road sign detection system which keeps drivers informed of the speed limit and other traffic signs on the road where they are currently travelling. A symbol in the form of a road sign appears in the instrument cluster and on the optional Head-up Display. In addition to displaying the current speed limit, the system can show when overtaking is prohibited, and also when overtaking is allowed again. Autoliv's system recognizes supplementary signs activated during wet conditions, for example, and temporary restrictions such as through road works.

