

# Mirror Integrated Driver & Occupant Monitoring System

## Advanced Driver Assistance Systems

# Driver Monitoring System

Magna's mirror integrated DMS is a natural extension of our leadership position in camera and mirror technologies. Features a proven camera-based solution that actively monitors and reduces distracted driving through customizable alerts and notifications, all in one complete product system.



Smarter



Safer



Electrification



Autonomy



New Mobility



Design



Co-Development Opportunity



Patented

### Competitive advantage/differentiators

- Real time monitoring of driver head, eye and body movement to detect distracted behavior, drowsiness and fatigue
- Cost saving by integrating with existing ADAS systems
- Common core designs (camera and algorithm) fit multiple system configurations
- Seamless packaging into inside mirror and overhead console
  - By design, the interior mirror provides the best unobstructed view to the driver
  - Flexible camera mounting positions including steering column, instrument cluster, center console and A-pillar

### Features

- Drowsiness detection
- Engagement level detection
- Precision gaze detection
- Head pose detection
- Face identification
- Auto calibration

# Occupant Monitoring

Combining Magna's camera and radar technologies provides increased safety, including obstructed view and health monitoring as well as detecting and locating children / pets / objects.



Smarter



Safer



Autonomy



New Mobility

## Competitive advantage/differentiators

- Complementary camera and radar sensors providing full vehicle cabin monitoring without blind spot
- Overhead console integration with embedded camera and radar.
- Meets requirements such as child in the footwell
- Multi sensor fusion within Magna's domain controller
- Integrated solution adding occupant monitoring within rearview mirror provides hidden camera

## Features

- Meets future NCAP and government regulations
- Monitor passenger occupancy, position for airbag deployment / seat belt reminder
- Detect child presence in rear facing car seat and covered under blanket
- Driver/passenger identification
- Forgotten object detection



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Forward. For all.