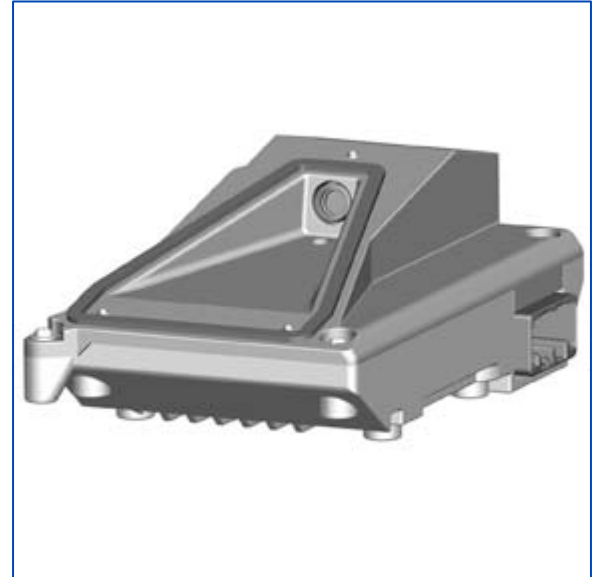# DELPHI

Delphi Intelligent Forward View Camera (200 Series)

Delphi's 200 series of the Intelligent Forward View Camera (IFV-200) offers vehicle manufacturers a scalable architecture for their forward looking safety system needs. The camera is specifically designed to help VMs implement Lane Departure Warning and Forward Collision Warning systems that are New Car Assessment Program (NCAP)-compliant.

Allowing for a customized feature set using common hardware, the IFV-200 uses a single imager and intelligent image processing techniques to provide target classification, robust sensing, and the tracking capability required for multiple safety and convenience functions. Integration of the imager and electronics into a single unit enables multiple safety and convenience enhancements at a lower cost than independent systems.

Intelligent Forward View-200 Camera

Leading-edge components include:
- Complementary metal oxide semi-conductor, high dynamic range (CMOS HDR) camera with high-performance optics
  - 45-degree horizontal field of view
  - 29 -degree vertical field of view
- Sophisticated image processor
- Mobileye feature algorithms

When fused with Delphi's multimode electronically scanning radar, the data from the two sensors can be correlated using image processing modules and complex algorithms to further enhance safety.

▶ Features Enabled by IFV-200

- Lane Departure Warning
  - Forward looking camera monitors lane markings and alerts drivers when the vehicle approaches or crosses the lane markings
  - Alert suppressed when turn signal is used
- Forward Collision Warning
  - Warns drivers of hazards ahead, helping to increase available reaction time and reduce the potential for a crash, injury and property damage
- Automatic Headlight Control
  - Activates high beams according to light and traffic conditions
  - Dims headlights for oncoming traffic and when approaching vehicles from the rear
- Traffic Sign Recognition
  - Detects and classifies traffic signs
- Provides traffic sign information including speed limits and curve speed alerts
- Pedestrian Detection
  - Detects and classifies pedestrians
  - Helps reduce the potential for injury to pedestrians
- Sensor Fusion
  - Provides enhanced object detection and classification when combined with Delphi's Electronically Scanning Radar