



## 360° Surround View System

Scalable solutions for Surround View are provided by four fish-eye cameras with >180° of the horizontal field of view to see everything around the vehicle. Combining these cameras allows for the creation of any view around the vehicle.

Surround view can be offered in different automotive segments. The basic version offers a pure 360° three-dimensional image to assist drivers with parking and maneuvering the vehicle at low speeds. This system uses only two cameras: one in the front and one in the rear. This entry-level system is especially suited for use in the compact-car segment due to its attractive low-cost structure.

Four-camera, intelligent surround view systems can provide 3D views, recognize objects, and offer additional driver assistance functions. Such features could include pedestrian detection, parking assistance, lane keeping, curb recognition, and cross-traffic warning.

### Benefits and Features

- › 3D Surround View
- › Cross Traffic Recognition
- › Rear Collision Warning
- › Forward Collision Warning
- › Multiple Lane Detection
- › Structure from motion
- › Augmented Reality
- › Allow creation of any view around the vehicle
- › Configurable image stitching and blending of overlapping regions



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### Pre-Production

Continental's 2013 Lincoln MKZ demonstrates the next generation, 360° Surround View System. This pre-production development has two key components: four PoE-Megapixel 185° Fisheye Cameras and a 360° Surround Processing Unit.

#### Feature Description

- › Concept study for mirror-less driving with intelligent mirror integrated multi-segment display
- › Multiple software controllable views, interlinked with the vehicle sensory and depending on driving maneuver to optimize the driver's surround vision

#### Function Benefits

- › Un-clutter center stack from chiming in camera images
- › Only one location of total surround vision for the driver
- › Various virtual views that support drivers' instant surround vision
- › High-resolution and accurate stitching and blending provide exceptional vision around the car
- › Dynamic overlays to provide clarity to the driver