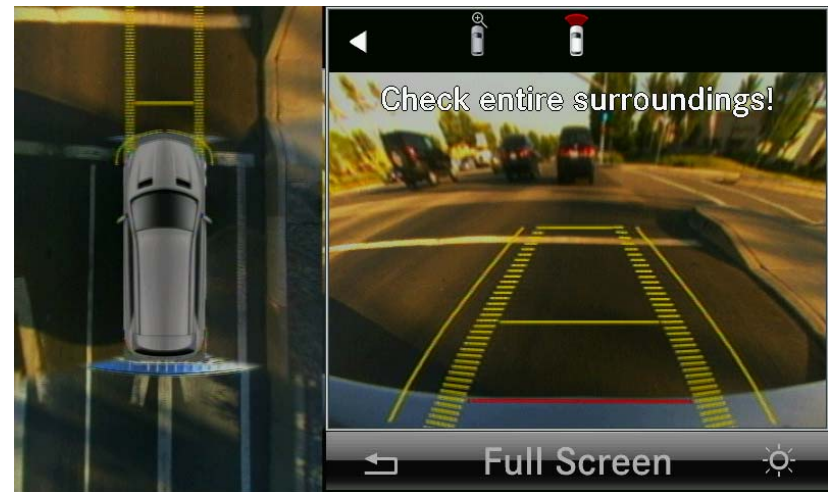


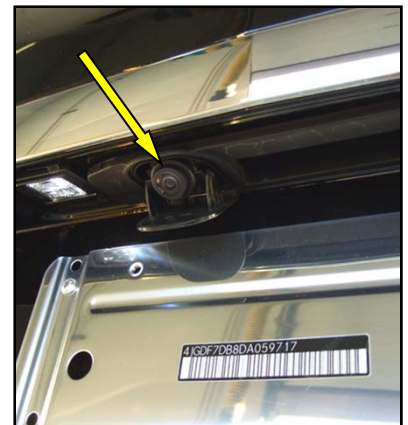
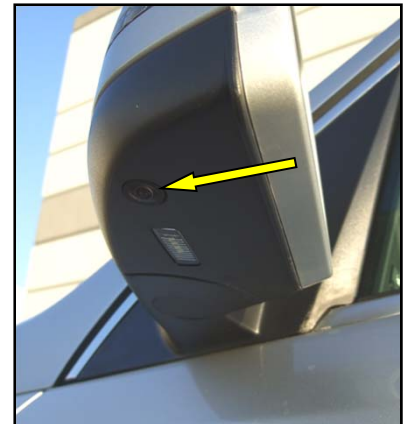
Surround View System / 360 Camera (code 501)

- In the USA, the Parking Assist Package consists of Parktronic with active parking assist, and surround view system
- Parktronic with Active Parking Assist is known from other models such as C218 / R231
- Surround View System (or 360 camera) provides the customer with many views around the vehicle to assist with vehicle maneuvers and increased observation of obstacles or pedestrians
- The customer can select from many views to meet the current situation using the COMAND[®] controller and COMAND[®] display



Surround View System

- 4 digital cameras are placed around the vehicle
 - Trunk
 - Front grille
 - Left door mirror housing
 - Right door mirror housing
- Cameras
 - horizontal angle of vision $> 180^\circ$
 - vertical angle of vision $> 123^\circ$
 - transmit image information to control unit via LVDS
- 360° camera control unit (N148) evaluates all images and processes accordingly
- N148 sends image details to COMAND ® display using FBAS
- Through combining camera images control unit is able to provide a 'top view' or birds eye view as well as the individual camera views
- Through information such as steering angle / parktronic sensor information superimposed lines can be placed over the image for guidance



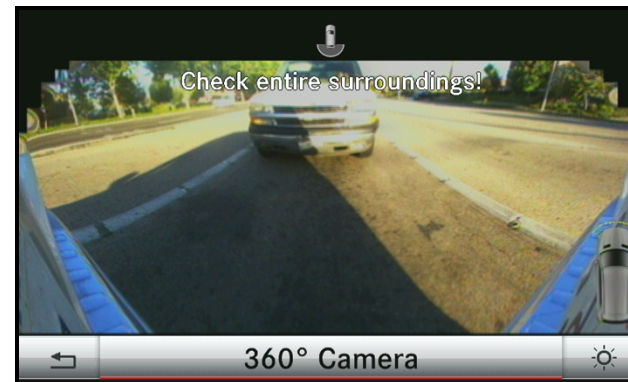
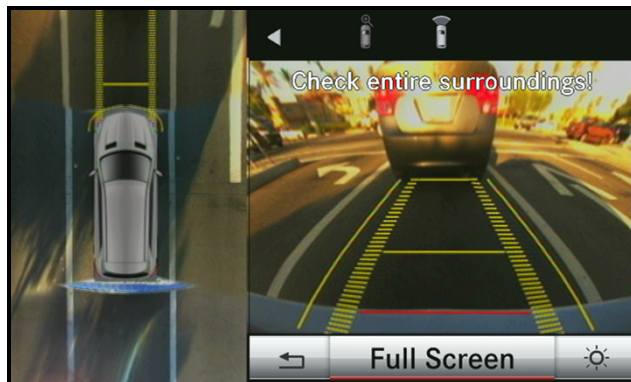
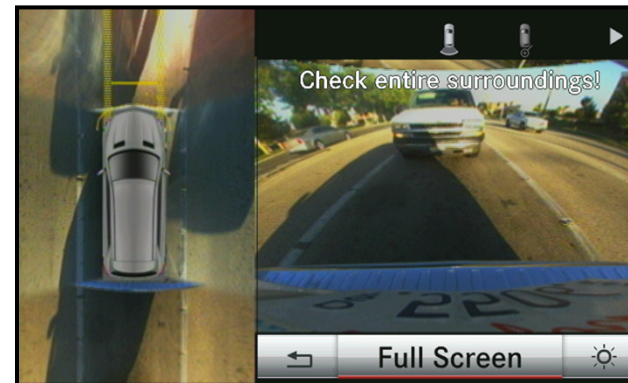
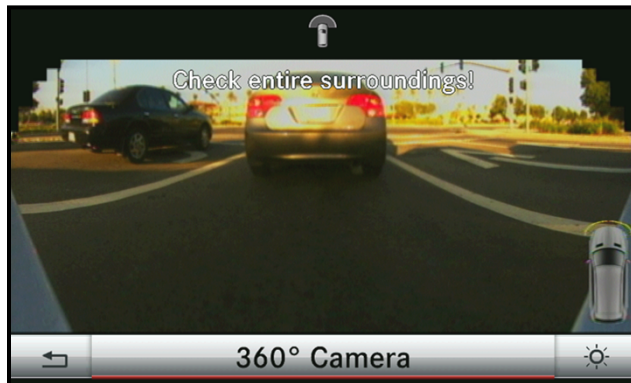
FBAS Color Video Baseband Signal
LVDS Low voltage differential signal

Surround View System

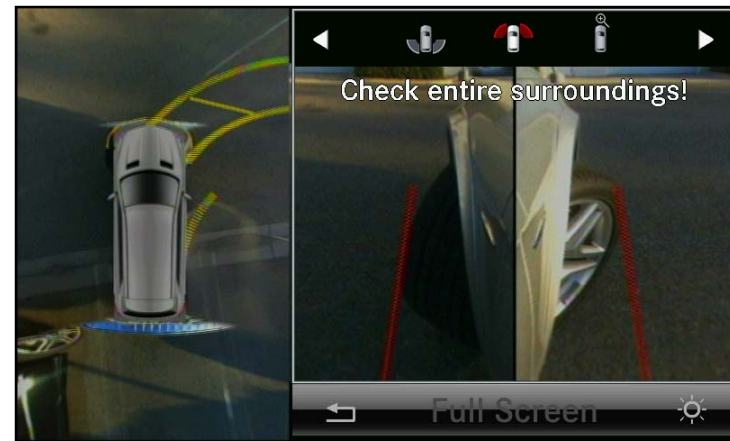
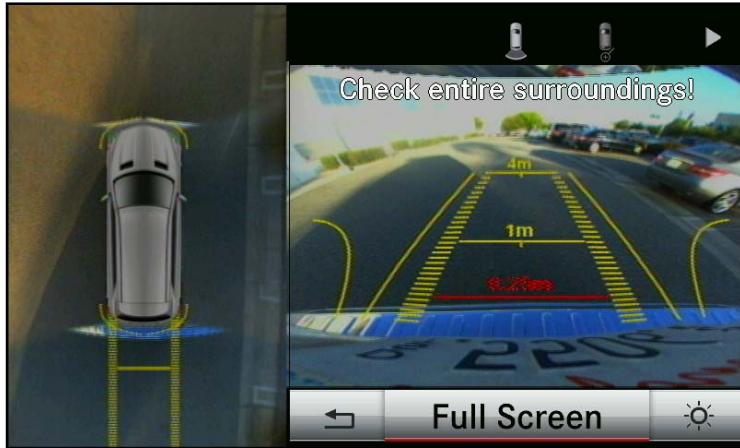
- N148 provides power to the four cameras when N148 is required to display images over COMAND ® display
- Camera images are displayed automatically when reverse is engaged providing this has not been deselected in COMAND ® settings
- Camera images can be manually selected in System menu
 - If activated at speeds < 17 mph, images displayed
 - If activated at speeds > 18 mph. images are not displayed until vehicle speed drops below 17 mph
 - If images are displayed < 6 s, and vehicle speed exceeds 17 mph, message displayed
 - If images are displayed > 6 s, and vehicle speed exceeds 17 mph, COMAND ® display returns to last selected application, e.g. Radio display and no message
- On GL model the rear camera is protected against soiling by a motorized camera cover (*Surround view & RVC*)
- This motorized camera cover is operated by the rear control module through CAN message sent from N148 via EIS, in addition COMAND ® can also request camera cover operation for cleaning purposes the customer can request through menu

Surround View System

- N148 monitors door latch position and will disable a camera image for an open door
- To ensure door mirror cameras have sufficient ambient light during darkness, SAM will monitor the ambient brightness and actuate ambient illumination in the outside mirror housings when needed

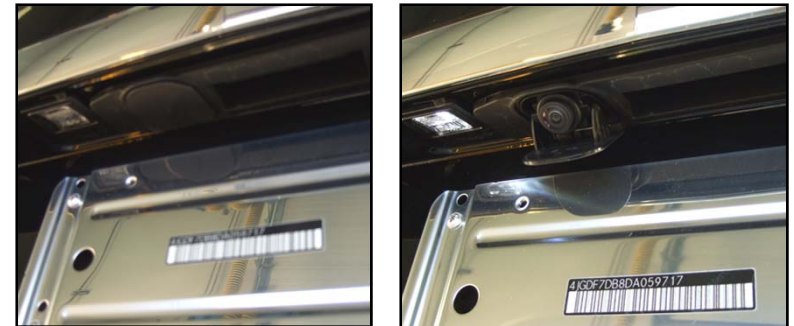


Surround View System



Surround View System

In order not to distract you from the traffic situation, the picture is faded out while the vehicle is in motion.



Rear camera cover

