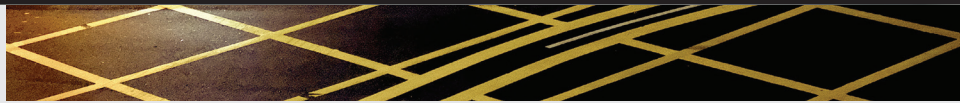




# CAMERA MONITORING SYSTEMS (CMS)



**G**entex camera monitoring systems start with the Full Display Mirror – an intelligent rear-vision system that uses a custom camera and mirror-integrated video display to optimize a vehicle's rearward view. The system captures video from a rearward-facing camera and streams it to a unique mirror-integrated LCD display that provides the driver with an unobstructed, panoramic view behind the vehicle. The mirror doubles rear vision and offers bi-modal functionality, enabling drivers to switch between mirror mode and display mode making the system fail-safe.

## HYBRID CMS

The Gentex Camera Monitoring System (CMS) is a three-camera rear vision system that streams rear video — in multiple composite views — to the Full Display Mirror. The three cameras provide a comprehensive view of the sides and rear of the vehicle and are discretely housed in downsized, exterior mirrors combined with that of a roof-mounted camera. Gentex believes it's the industry's first practical and comprehensive rear vision solution designed to meet automaker, driver, safety and regulatory requirements.



When in display mode, the driver can choose between various viewing modes that present the three camera feeds independently or stitched together to form a single, wide-angle view. The Gentex CMS solution can also work in conjunction with a vehicle's side blind zone warning system. When a trailing vehicle enters a side blind zone, a warning indicator illuminates in both the interior and exterior mirrors while the corresponding side-view video feed appears in the display until the vehicle passes.



- Provides Enhanced Vision
  - Provides an unobstructed view of sides and rear of the vehicle.
- Fail Safe
  - Mirror views available if the digital view is disrupted.
- Improved Fuel Efficiency
  - Smaller exterior mirrors offer weight savings, improved aerodynamics, and enhanced fuel efficiency.
- Ready to Implement
  - Comprehensive system designed to meet automaker, driver, safety and regulatory requirements.
- Cost Effective
  - No need to retool vehicle interiors to accommodate additional displays.
- ADAS
  - System can be integrated with side blind zone alerts and other ADAS functions.



## FULLY DIGITAL CMS

Gentex's Fully Digital Camera Monitoring System takes it a step further, replacing the vehicle's exterior side mirrors with camera pods that stream their video feed to custom 6" curved OLED displays in the vehicle's interior cabin. By replacing exterior side mirrors with cameras, drivers are given an expanded field-of-view with the additional benefits of improved vehicle aerodynamics, reduced wind noise, and reduced vehicle width.

- Improved vehicle aerodynamics
- Reduced wind noise
- Reduced vehicle width

