

# WHAT IS ADAS

Advanced driver-assistance systems (ADAS), are technological features that are designed to improve driver safety and prevent automotive accidents.

ADAS utilizes sensors such as radar, sonar, lidar and cameras to perceive the world around the vehicle, and either provide critical information to the driver or take automatic action to avoid or mitigate the effects of a crash.

ADAS systems are designed to increase driver safety and decrease the number and/or the severity of automotive accidents.

## ADAS CAN PREVENT

\*According to a study conducted by the AAA Foundation.

**40%** OF VEHICLE  
CRASHES

**37%** OF VEHICULAR  
INJURIES

**29%** OF VEHICULAR  
DEATHS



**IA900WA**  
ALIGNMENT + ADAS SYSTEM

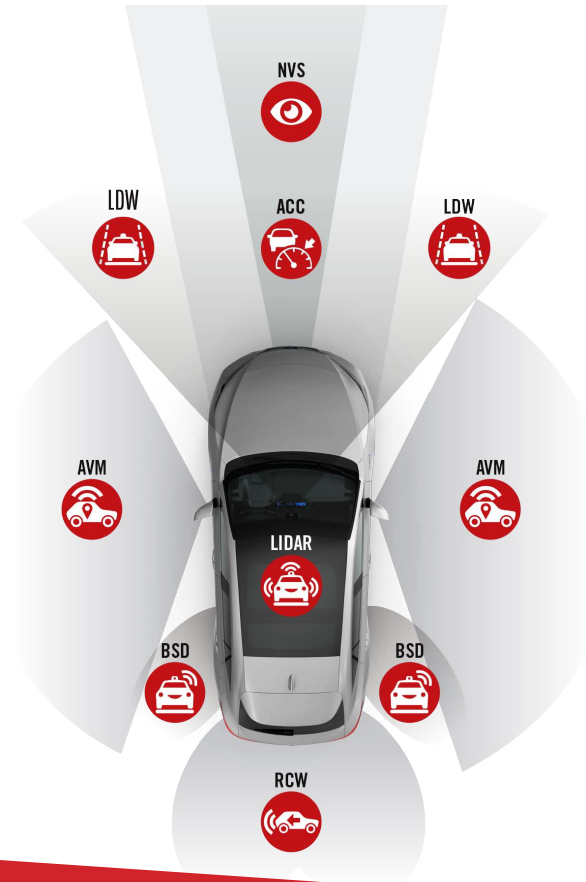
# AUTEL®

visit: [autel.com](http://autel.com) | follow: @AutelTools

**ADVANCED  
WHEEL ALIGNMENT  
& ADAS CALIBRATION**

# AN INTRO TO ADAS

ADVANCED DRIVER ASSISTANCE SYSTEMS



**KEEP YOUR VEHICLE  
CALIBRATED & SAFE**

# COMMON ADAS APPLICATIONS *WHAT THEY ARE & WHAT THEY DO*



**ACC** ADAPTIVE CRUISE CONTROL  
Adjusts Vehicle Speed to Maintain a Safe Distance with Vehicles Ahead.



**AVM** AROUND VIEW MONITORING  
Provides 360-Degree, Bird's-Eye View to Help Drivers Park More Easily.



**RCW** REAR COLLISION WARNING  
Warns the Driver of Vehicles Coming Close to the Rear of Their Vehicle.



**LDW** LANE DEPARTURE WARNING  
Warns Driver When the Vehicle Drifts Out of Their Lane.



**APA** AUTOMATED PARKING ASSIST  
Provides Audible, Visual, or Haptic Obstruction Warnings During Low-Speed Parking Maneuvers.



**LIDAR** LIGHT IMAGING DETECTION  
Detects Objects In Vehicle Vicinity to Create a 3D Map of Objects and Surroundings.



**NVS** NIGHT VISION SYSTEM  
Improves a Driver's Vision in Darkness or Poor Weather.



**BSD** BLIND SPOT DETECTION  
Detects and Warns Driver of Vehicles in Either Driver or Passenger Rear Corners (Blind Spot).



**PD** PEDESTRIAN DETECTION  
Alerts the Driver to the Presence of a Pedestrian In Front of Their Vehicle.



**TSR** TRAFFIC SIGN RECOGNITION  
Recognizes Traffic Sign Info and Visually Relays It to the Driver.

## WHEN IS ADAS CALIBRATION REQUIRED?

Whenever an ADAS sensor's aiming is disrupted in any way, an ADAS calibration is required. Disruption can happen during a collision, even a minor fender bender, or as a result of common services like windshield replacement, suspension repair, or wheel alignment.

- AFTER MINOR COLLISION
- COLLISION REPAIR
- WINDSHIELD OR SIDE VIEW MIRROR REPLACEMENT
- SENSOR/MOUNTING BRACKET REPLACEMENT
- SUSPENSION REPAIRS
- WHEEL ALIGNMENT
- CHANGE IN RIDE HEIGHT OR TIRE SIZE
- FRONT AIRBAG DEPLOYMENT IF DEFLECTED OFF WINDSHIELD
- RELATED DTC IS PRESENT
- ADAS-RELATED TSBs

**SAFETY SYSTEM CHECKS  
SHOULD BE PERFORMED ON  
A SEMI-REGULAR BASIS**

*IT'S RECOMMENDED THAT YOU HAVE  
YOUR ADAS CHECKED AS OFTEN AS  
OTHER ROUTINE MAINTENANCE.*