



# ADAS TERMS

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REFERENCE GUIDE

[I-CAR.com/ADAS](http://I-CAR.com/ADAS)



**ABL****Active Bending Light System**

Automatically turns the headlight beam to the right or left depending on the vehicle's direction.

**ACC****Adaptive Cruise Control****ADAS****Advanced Driver Assistance System**

An electronic system that gives the driver a safer and more comfortable driving experience. Includes camera technology, as well as other sensors like radar, laser, or ultrasound.

**AEB****Automatic Emergency Braking, Autonomous Emergency Braking****AFLS****Adaptive Front Lighting System****AHBC****Adaptive High Beam Control****ALC****Adaptive Light Control****ANV****Automotive Night Vision****APS****Automatic Parking System****BACKUP CAMERA RVC****Rear-View Camera**

Provides view of area behind vehicle when in reverse. Could include trailer assistance, a system that assists drivers during backing maneuvers with a trailer attached.

**BCW****Blind Spot Collision Warning**

Provides information about a vehicle's blind spots, which cannot be seen easily by the driver. Some systems feature an alarm, while others include cameras that transmit images onto the dashboard display.

**BLIS****Blind Spot Information System****BOP****Back-Over Protection, Back-Over Prevention****BSD****Blind Spot Detection****BSM****Blind Spot Monitoring**

Senses a vehicle approaching a different lane with a flashing indicator on the side mirror.

**BSW****Blind Spot Warning****CAS****Collision Avoidance System****CDW****Collision Detection Warning****CIB****Crash Imminent Braking, Collision Imminent Braking**

Automatically applies the brakes in a crash if the driver does not respond to warnings.

**CMBS****Collision Mitigation Braking System****CMS****Camera Monitor System**

Additional vehicle monitors or displays that present a better view of the vehicle's external surroundings.

**CTA****Cross-Traffic Alert****DDD****Driver Drowsiness Detection****DDW****Drowsy Driver Warning****DFW****Driver Fatigue Warning****DMS****Driver Monitoring System**

A detection system that uses cameras or other sensors to determine if a driver is paying attention to the road. A majority of these systems track eye blinking rates and gaze direction, while some can detect sleepiness by the driver's head nods.

**EDA****Emergency Driver Assistant**

A system that monitors a driver's behavior, and takes control of the brakes and the steering, bringing the vehicle to a stop if it finds the driver is not able to safely drive the vehicle.

**EVWS****Electric Vehicle Warning Sound**

Sounds designed to alert pedestrians of nearby moving electric vehicles, which make very little noise.

**FCA****Forward Collision Avoidance**

A system that use a variety of sensors to determine whether a vehicle is in danger of colliding with another object. They can sense the proximity of other vehicles, pedestrians, or other objects on the road, and take preventive actions, such as pre-charge the brakes, apply tension to the seat belts, or take over steering.

**FCW****Forward Collision Warning****FCWS****Forward Collision Warning System****FEB****Forward Emergency Braking**

Monitors the proximity of vehicles in front, detecting situations where a collision is possible. Braking is then automatically applied to avoid the collision or reduce its impact.

**GFHB****Glare-Free High Beam****HDC****Hill Descent Control**

Adjusts speed by applying the brake or shifting to lower gears while descending down a hill.

**HLA****Head Lamp Assist****HUD****Head-Up-Display**

A transparent display of information on the front windshield, allowing drivers to keep their eyes on the road rather than having to look away for the information.

**ICC****Intelligent Cruise Control**

Assists with acceleration and/or braking to maintain a safe distance from the vehicle ahead. Some systems can come to a stop and continue.

**IHBC****Intelligent High Beam Control****IHC****Intelligent Headlight Control**

Detects oncoming traffic and vehicles in front by automatically adjusting the headlights, including high and low beams.

**IPAS****Intelligent Parking Assist System****ISA****Intelligent Speed Adaptation, Intelligent Speed Advice**

Monitors vehicle speed, typically using Traffic Sign Recognition and map data to determine the allowed speed limits, and warns the driver to adjust speed if it is higher than the allowed limit.

**LA****Lighting Automation**

Allows drivers to drive with the high beam on at all times, adjusting light distribution if it detects other traffic on the road as to not blind approaching drivers.

**LCA****Lane Change Assist****LCA****Lane Centering Assist****LD****Lane Detection****LDW****Lane Departure Warning****LDWS****Lane Departure Warning System**

Uses a forward-facing camera to detect lane markings, and warns the driver if the vehicle leaves the lane without proper use of the turn signal.

**LKA****Lane Keeping Assist**

Keeps a vehicle in the center of the lane by using a forward-facing camera to detect lane markings with an electric steering system.

**MOD****Moving Object Detection**

Multiple cameras located around the vehicle detect moving objects around the vehicle, typically during parking.

**NVA****Night View Assist**

Thermal camera or active infrared lighting captures images to be displayed on the dashboard. This increases the driver's perception and viewing distance during nighttime.

**OBSTRUCTION  
WARNING SYSTEM**

Detects obstructions near vehicle during [forward or rear] parking maneuvers.

**OD****Object Detection**

A computer vision algorithm that detects objects in view of a camera, such as pedestrians, vehicles, animals, or cyclists.

**PA****Parking Assistance****PAEB****Pedestrian Automatic Emergency Braking**

Automatically applies brakes to a vehicle if a pedestrian is detected in front or rear of the vehicle.

**PD****Pedestrian Detection****PDS****Pedestrian Detection System**

Cameras that detect pedestrians in front or behind the vehicle.

**PLD****Parking Line Detection****PSMD****Parking Slot Marking Detection**

Detects markers on the road surface to determine the exact location of parking spaces.

**RCTA****Rear Cross-Traffic Alert**

Multiple sensors or wide angles cameras near the front or rear of the vehicle, detecting oncoming cross traffic.

**REAR AEB****Rear Automatic Emergency Braking**

Combines ultrasonic and rear-view camera technologies to increase safety while backing up so the driver doesn't hit a pedestrian, vehicle or other object.

**REAR AUTOMATIC  
BRAKING**

Detects potential collision while traveling in reverse and automatically applies the brakes to avoid or lessen the severity of impact. Some systems include pedestrian detection.

**REMOTE PARKING**

Designed to help a driver park his or her vehicle. Some systems perform the entire job automatically, while others help the driver know when to turn the steering wheel and when to stop.

**SAD****Semi-Autonomous Driving**

Primarily autonomous, but requires the driver to monitor and take control of the vehicle if the automated driving system cannot safely operate the vehicle.

**SRH****Steering Responsive Headlights****SVC****Surround View Camera****SVPA****Surround View Park Assist**

Multi-surround view cameras that capture and display 360 degrees surrounding the vehicle in one integrated view on a dashboard display.

**TA****Turning Assistant**

Monitors opposing traffic when turning at low speeds, and autonomously applies the brakes in unsafe situations.

**TJA****Traffic Jam Assist**

Adapts speed and optionally takes control of steering in lower-speed, dense traffic situations.

**TLR****Traffic Light Recognition**

Camera-based technology that detects and analyzes traffic lights, either to inform the driver or to provide information to the vehicle for autonomous driving.

**TSR****Traffic Sign Recognition**

Camera-based technology that detects and analyzes the traffic signs next to the road, often displaying the information on the dashboard.

**UPA****Ultrasonic Park Assist**

Solely uses ultrasonic sensors to detect distance.

**WWDA****Wrong-Way Driving Alert**

Uses Traffic Sign Recognition (TSR) to detect wrong-way traffic sign indicators, and warns the driver if he or she is driving in the wrong direction.

**WWDW****Wrong-Way Driving Warning**

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**Calibration of Front Facing Cameras and Front Radar**

**Camera Calibration, Inspection, and Initialization Requirements**

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**Nissan LEAF Technologies and Repair Considerations**

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**Requirements and Considerations for Achieving an Accurate ADAS**

**Windshields and Advanced Driver Assistance Systems (ADAS)**

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