



ADAS EVALUATION & VALIDATION STANDARDS

Adaptive Cruise Control Testing

The American Center for Mobility supports ADAS technology testing and most global evaluation and validation standards with onsite experts, various test track environments, a fully integrated Intelligent Transportation System, and variety of custom test equipment. On over 500 acres of real-world road systems, technology teams will find confidentiality, safety and support in validating ADAS technologies.



Adaptive cruise control (ACC) is an available cruise control system for road vehicles that automatically adjusts the vehicle speed to maintain a safe distance from vehicles ahead. ACC systems allow your car to maintain a desired speed until it encounters slower-moving traffic. ACC will accelerate or brake to maintain a set distance from the car ahead.

The systems use lasers, radar, cameras, or a combination of all of those. If traffic slows to a stop, some ACC systems will bring the car to a complete stop, then bring it back up to speed when traffic gets going again. Others work only at certain speeds and may not start to accelerate automatically. The systems come in two varieties:

- ACC: Automatically accelerates or brakes to keep your vehicle at a preset speed and/or distance between you and the car ahead of you. Some systems may bring the car to a full stop, then re-accelerate.
- ACC With Stop and Go: Brings a car to a complete stop and automatically returns to the set speed when traffic gets moving again. It is important to know precisely when and how the system intervenes, how well it acquires and tracks targets and how it performs in a variety of real-world scenarios. At ACM we perform measurements such as target bearing, distance, relative velocity, and time-to-collision to evaluate these systems.

