



AAA WASHINGTON

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Pedestrian Detection Technology Research

Pedestrian Detection



How do pedestrian detection systems perform when moving at 20 mph and 30 mph in these scenarios:

- ❑ Encountering an adult crossing the road
- ❑ Child darting into traffic from between two parked cars
- ❑ Vehicle turning right onto an adjacent road with an adult crossing simultaneously
- ❑ Two adults alongside the road
- ❑ Encountering an adult crossing the road at night (25 mph)

Pedestrian Detection



When encountering an adult crossing the road during the day:

- ❑ At 20 mph, a collision with the pedestrian was avoided 40% of the time.
- ❑ At 30 mph, only one test vehicle avoided collision with the pedestrian in 2 out of 5 runs.

When encountering an adult crossing the road at night:

- ❑ The systems were ineffective.



Pedestrian Detection



When encountering a child at 20 mph:

- A collision occurred 89% of the time.
- At 30 mph, NONE of the test vehicles avoided a collision with the child.



Pedestrian Detection



When encountering an adult immediately after a right-hand turn:

- **NONE** of the test vehicles avoided a collision with the pedestrian.



Pedestrian Detection



When encountering two adults alongside the road:

- At 20 mph, a collision occurred 80% of the time.
- At 30 mph, only one test vehicle avoided collision with the pedestrian in 1 out of 5 runs.



Pedestrian Detection



Conclusion...

- Pedestrian detection systems performed inconsistently and were completely ineffective at night.
- Pedestrian detection systems can aid in lessening the likelihood and severity of a crash in some scenarios.
- Pedestrians should remain diligent about their safety, obey traffic signals and make sure a vehicle is stopped before walking in its path.