

Asimov self-driving car system capabilities* | Jan. 1, 2018

Road conditions		
1	Follow lane lines	
2	Navigate on roads without lane lines	
3	Drive at night on highways	
4	Drive at night in urban environments	
5	Drive through the rain on highways	
6	Drive through the rain in urban environments	
7	Drive over bridges	
8	Navigate tunnels	
9	Detect and respond to speed limit changes and speed advisories	
10	Obey access restrictions (one way, no turn, ramps, etc.)	
Traffic maneuvers		
11	Reduce speed for merging vehicles	
12	Adjust speed for lane changes	
13	Adjust lane position for cones	
14	Adjust lane position for bicycles	
15	Adjust lane position for other vehicles that come into lane	
16	Autonomous passing across multiple lanes of traffic	
17	Slow or stop for car braking in front	
18	Perform high-speed merges	
19	Perform low-speed merges	
20	Perform vehicle following in stop-and-go traffic	
21	Pass slow vehicles	
22	Perform U-turns	
23	Detect and respond to motorcyclists	
24	Respond to unexpected maneuvers by other vehicles	
Intersections		
25	Perform turns within traffic	
26	Navigate intersections	
27	Detect and respond to traffic lights during the day	
28	Detect and respond to traffic lights at night	
29	Respond to vehicle breaking rules at traffic lights	
30	Obey 2-way stops with cross traffic	
31	Obey the rules at 3-way stops	
32	Obey traffic light turn arrows	
33	Provide safe distance from pedestrians	
34	Obey crosswalks	

General system capabilities		
35	Multi-sensor tracking	
36	Follow local and state driving laws	
37	Detect and respond to component failures	
38	Classify objects and people	
39	Animal collision avoidance	