



## Product Specifications

### Road-iQ ADAS: Blind Spot Detection (BSD)

- High accuracy computer vision technology
- Self updating auto lane detection and calibration
- Alerts when a vehicle is in driver's blind spot
- Helps avoid side collisions with vehicles
- Detects objects up to 80 feet behind the mirror camera
- Mobile app tool for mirror realignment

The Road-iQ BSD System is a camera-based system which uses computer vision technology to perform object detection and tracking. The software installed on the Road-iQ SmartHub has been trained to detect four-wheeled vehicles. When the system detects a motor vehicle in the blind spot on one or both sides, the icon in the respective mirror glass will illuminate to warn the user.

**Note:** The Road-iQ BSD Systems do not guarantee 100% accuracy in detecting vehicles or driving lanes, or in providing warnings for all objects in the blind spot. In addition, road, weather and other conditions can adversely affect the Road-iQ System recognition and response capabilities. Any conditions that create partial or full blockage of the computer vision system's view will result in reduced or no functionality of the Road-iQ BSD System. Always ensure that the computer vision system has a clear field of view. At time of installation and service the system may require extrinsic calibration to determine the required camera location and viewing position. Refer to user and installation manuals for all safety and installation instructions.



## BSD Technical Requirements

Hardware Requirements	
<b>Platform</b>	BSD runs on Road-iQ SmartHub with R17Q1.1 OS or higher
<b>Compatible Cameras</b>	HPB-VN2267-B002
<b>Mirrors with Compatible Cameras</b>	Velvac 2025, 2030, 2020 XG and 2030XL mirror models including all head and mounting variations.

## BSD Install Requirements

Adjustable Mirror and Camera Position				Fixed Mirror and Camera Position		
	Installation Min	Installation Max	Operational Range		Installation Min	Installation Max
<b>Mirror Pitch</b>	-2°	2°	N/A	<b>Mirror Pitch</b>	-2°	2°
<b>Camera Height</b>	1.4m	2.7m	N/A	<b>Camera Height</b>	1.4m	2.7m
<b>Camera Roll</b>	-3°	3°	+/- 3.5°	<b>Camera Roll</b>	-6.5°	6.5°
<b>Camera Pitch</b>	12°	23°	+/- 7°	<b>Camera Pitch</b>	5°	30°
<b>Camera Yaw</b>	11°	34°	+/- 6°	<b>Camera Yaw</b>	5°	40°

Vehicle			
	Min	Max	Tolerances
<b>Vehicle Length:</b>	3 Meters	14 Meters	N/A
<b>Required Vehicle Signals</b>	Left & Right blinker, speed from OBD-II or J1939		