



MILLIMETER-WAVE RADAR CAMERA FOR REDUCING BLIND SPOTS

CARAVISION SET TO LAUNCH MMWAVE RADAR CAMERA

- ❖ *Radar-camera fusion technology for helping the target identification on the road*
- ❖ *Cover a total 170° field of view to reduce blind spot area and capture more scenes on the road*
- ❖ *Sensor integration based pedestrian detection and pedestrian collision prevention apparatus*

INTRODUCTION

As a result of the blind area caused by the difference of radius between inner wheels, the collisions become more possible and serious. CV-BSC0050 mmWave radar camera series, in order to fulfil accuracy requirements for reliable obstacle detection behind aside of the vehicle, and to provide sufficient depth resolution to differentiate whether distant obstacles are in blind spot area or nearby, the outer two 79-GHz radar sensors form a 1080P high resolution security camera system.

MAIN FEATURES

- Built-in wide-angle lens to display areas of a vehicle's surroundings
- Equipped with 1080P 1080p resolution videos, capture sensory information about activities and events
- Adopt two 79-GHz automotive mmWave radar sensors with higher resolution and wider-angle detection
- If the illumination is insufficient, the IR illuminator will automatically activate, IR LED irradiation distance 6 meter
- Intended for harsh environments and elevated temperatures -20°C ~ 70°C

- IP69K increase the durability of whole metal cover, dust proof design adapted to windy and rainy
- It provides easier expansion of ADAS applications into multiple vehicle models
- Powered by DC 12V which is durable and longlasting, and can be used for a long time

SPECIFICATION

- Specialized aviation 6-pin mini-DIN connectors
- The installation height shall be located 60cm ~ 110cm above the ground surface



Wide-angle lens

170°

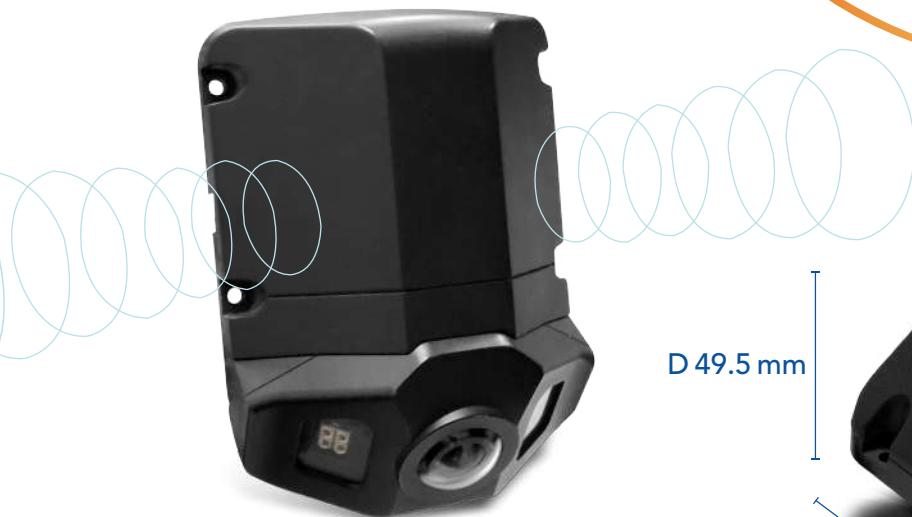
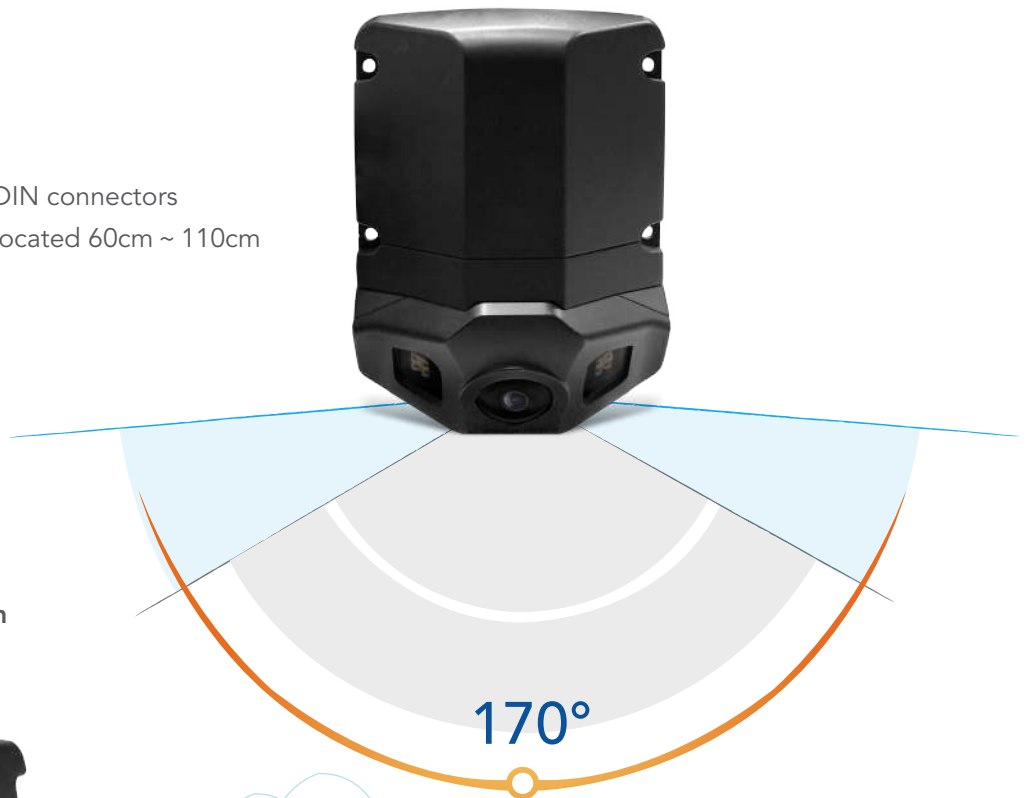
Field of view



79GHz

120°

Radar detection



D 49.5 mm



H 130 mm

W 97 mm



D 145.7 mm

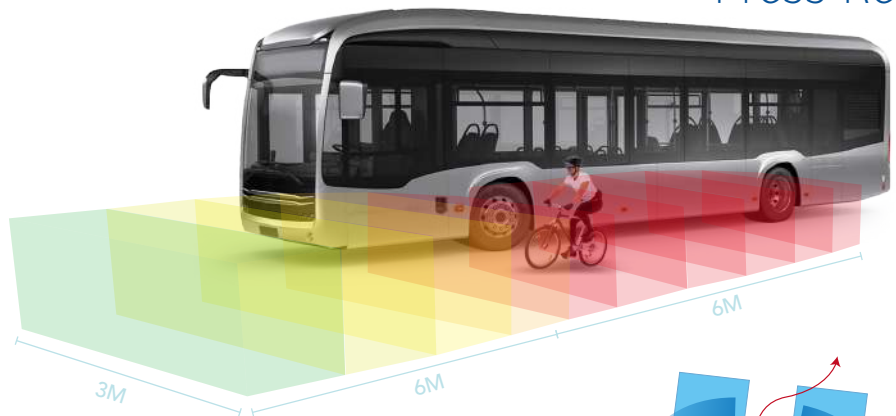
H 38 mm

W 135 mm

• ECU, Electronic Control Unit

BSD Blind Spot Detection

A sensor-based safety feature that detects obstacles & pedestrians around the vehicles



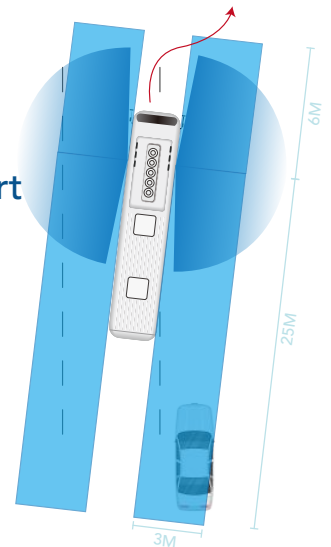
BSM Blind Spot Monitoring



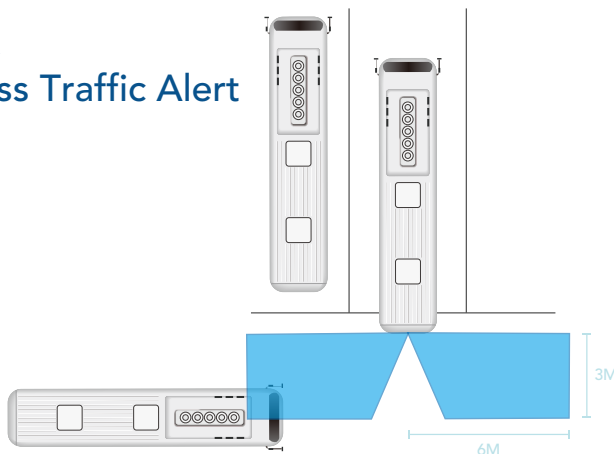
LCA Lane Change Alert

Assists the driver to avoid a collision by detecting vehicles in the blind spot area when changing lanes

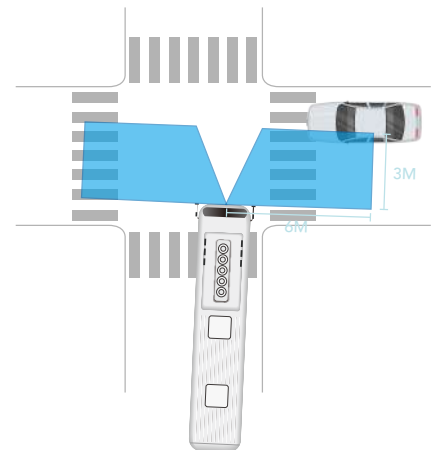
Cover 25m from behind side between the vehicle, and alert automatic triggering when vehicle speed exceeds 20 km/h



RCTA Rear Cross Traffic Alert



FCTA Front Cross Traffic Alert



ABOUT CARAVISION

With more than 30 years of video technology support from our parent company HI-SHARP in the security and surveillance field, Caravision focuses on the research and development of in-vehicle security and surveillance equipment, with a full range of products developed and manufactured in Taiwan.

Our products for large commercial vehicles is particularly impressive, and Caravision has flexibly constructed a line of automotive video products, providing various AI intelligent video identification technology, advanced driver assistance system (ADAS), driving vision assistance system integration and fleet management services.

For more information and product details, please visit www.caravision.com.tw

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