KEYENCE

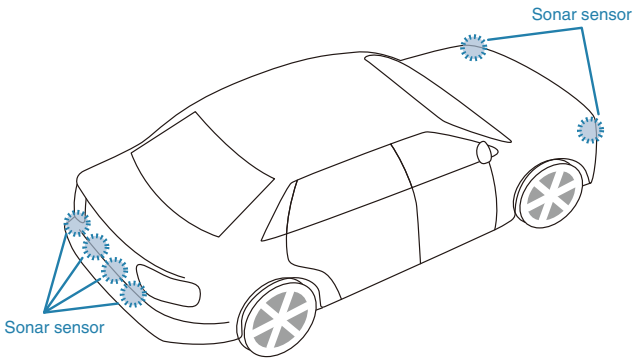
Laser Marker

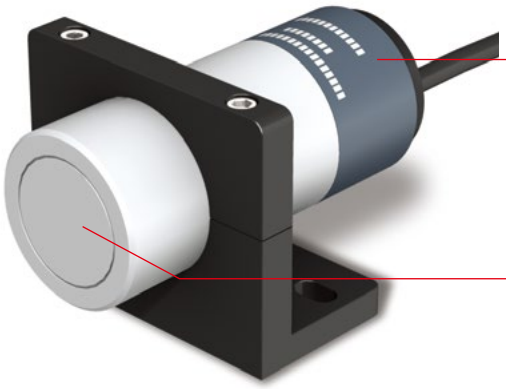
Electric Vehicle Applications

Safety component edition

Sonar sensor

These sensors detect obstacles within range of about 1 m 3.3' from the sensors installed in the bumper. These are used to assist with parking and to alert the driver of nearby obstacles.



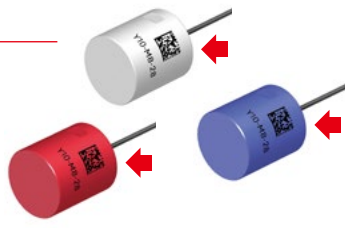


Identification marking on case

Identification markings are applied to the numerous sonar sensors installed in the vehicle.

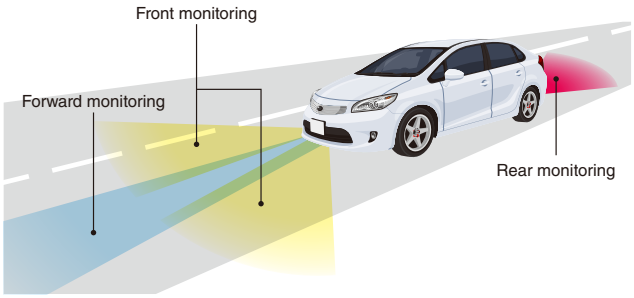
2D code marking on sensor parts

Because the color of the sensor parts varies depending on the vehicle paint color, the laser marking must have clear coloration in various colors.



Milliwave radar

The milliwave radar sensor detects a wide range, 100 m 328.1' ahead. The forward sensor measures the distance to the preceding vehicle, the front sensor helps prevent crossing accidents such as at intersections, and the rear sensor detects vehicles and pedestrians in the driver's blind spots.

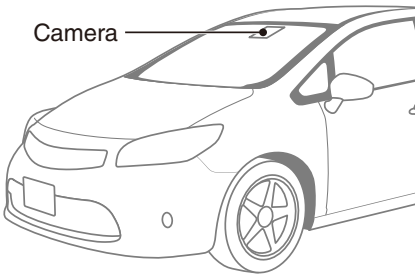


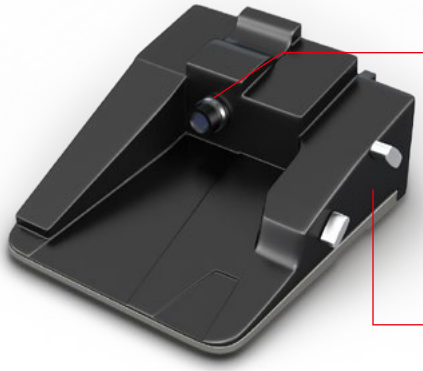
Standard marking on case

Equipment that emits radio waves such as milliwave radar must obtain standard certification for each country the equipment will be used in. Because this certification mark is added each time export target countries increase, laser marking that is easily adaptable to design changes has become mainstream.

Front camera

Vehicles, pedestrians, and traffic signs are recognized based on data captured with the front camera, and the driver is alerted. This camera is good at detecting objects that are relatively close and it can recognize white lines that indicate traffic lanes, crossing pedestrians, and speed limit signs.





Identification marking on lens unit

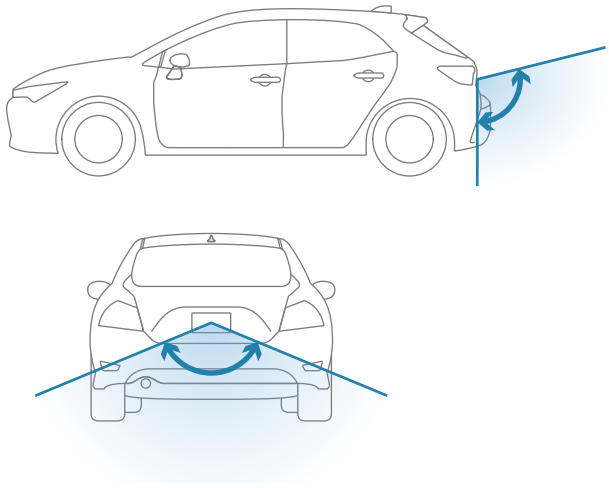
Identification marking is performed on the ring part that fits the lens.

Character and 2D code marking on cation-painted parts

Marking is performed on cation-painted parts of the camera base. To ensure rust prevention, marking must not completely strip off the layer of paint.

Rear camera

This camera displays the area behind the vehicle. The video when backing in the vehicle is displayed on the car navigation monitor. A CMD lens is often used in a rear camera, and it nearly eliminates driver blind spots by displaying not only the rear view but also the left and right areas as well.



Serial number marking on camera case

Identification marking is performed to distinguish the installed vehicle model and specifications.

Lot number marking on lens

Identification marking is performed on the lens itself to distinguish the assembled case.

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