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Sensing System Technology

— Combing multiple sensors for improved safety —

DENSO is committed to helping improve safety on roadways worldwide and has focused on developing sensing technologies for safety devices that help prevent accidents and mitigate the damage in a potential accident. Now, the company is working to realize a more comprehensive sensing system by combining multiple sensors into a single-packaged system.

Currently, most safety systems use one sensor technology per device. For example, the Lane Keeping Assist employs one sensor -a vision sensor- that will sense when the vehicle is about to inadvertently change lanes. To create a more comprehensive safety system, DENSO is developing the Sensing System technology, which uses multiple sensors to detect the vehicle's surrounding environment and communicate important information to the vehicle's various support systems.

DENSO's Sensing System technology can be applied to many Driver Support devices because the use of various sensors allows for greater flexibility among the systems. For instance, by combining a millimeter-wave radar sensor and a vision sensor, the sensing system can recognize the shape, size and type of an object. The millimeter-wave radar sensor detects the position and relative velocity of the object, while the vision sensor detects the type and different attributes of the object. As a result, it is possible to accurately identify the positional relationship between the object and the vehicle, as well as the object's relative movement, leading to a safety system that is better tailored for an individual situation.

Not only is DENSO contributing to a safer driving environment with the further development of advanced safety technologies, but DENSO also is working to integrate information systems, such as driving conditions, external communication and map information, to add to a driver's comfort and convenience.

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