

**For Immediate Release**

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## **DENSO Develops New Safety Products for New 2018 Lexus LS – New vision sensor and a millimeter-wave radar sensor more precisely detect obstacles on the road –**

**KARIYA (Japan)** — [DENSO Corporation](#) designs and develops the technology helping drivers safely navigate the roads. Today, the company announced two new products to be incorporated in the new 2018 Lexus LS, which will be released in Japan and U.S. after this fall. A new stereo vision sensor and millimeter-wave radar sensor will help improve safety performance of vehicles by more precisely detecting obstacles and lane lines on roads.

The stereo vision sensor uses 3D image processing techniques called “dense stereo matching” to detect obstacles of different shapes, including pedestrians, vehicles, and guardrails, as well as empty road spaces marked by lane lines. This enables autonomous emergency braking and automatic steering control to avoid obstacles. The product's highly sophisticated cameras can also better detect pedestrians at night.

The new millimeter-wave radar sensor provides higher pedestrian detection performance in a more compact module. More frequent radio waves emission also detects obstacles with higher sensitivity, particularly pedestrians approaching from the sides. Furthermore, the product's radar beam can be emitted over a wider angular range, without requiring a mechanism to adjust the angle, as with previous versions. This reduces its size by 60 percent compared to conventional radar sensors, thereby allowing for easier installation.

DENSO develops technologies and products that are core to helping create a society free from traffic accidents. Products like these will help deliver a safe and secure automotive society for all people around the world.

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Stereo vision sensor



Millimeter-wave radar sensor

**About DENSO Corporation**

DENSO Corp., headquartered in Kariya, Aichi prefecture, Japan, is a leading global automotive supplier of advanced technology, systems and components in the areas of thermal, powertrain control, electronics and information and safety. Its customers include all the world's major carmakers. Worldwide, the company has more than 200 subsidiaries and affiliates in 38 countries and regions (including Japan) and employs more than 150,000 people. Consolidated global sales for the fiscal year ending March 31, 2017, totaled US\$40.4 billion. Last fiscal year, DENSO spent 9.0 percent of its global consolidated sales on research and development. DENSO common stock is traded on the Tokyo and Nagoya stock exchanges. For more information, go to [www.denso.com](http://www.denso.com), or visit our media website at [www.denso.com/global/en/news/media-center/](http://www.denso.com/global/en/news/media-center/)

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