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## DENSO and FotoNation to Collaborate on Image Recognition Technology

*Enhancing the development of next-generation Driver Status Monitor leveraging facial image recognition, and neural network technologies*

KARIYA, Japan--(BUSINESS WIRE)-- DENSO Corporation, one of the world's largest automotive technology, systems and components suppliers, and Xperi Corporation (NASDAQ: XPERI), a Silicon Valley-based technology company, today announced DENSO will start joint technology development of cabin sensing with FotoNation, an Xperi group company specializing in image recognition technologies. The partnership will help DENSO significantly improve the performance of its Driver Status Monitor, an active safety product currently used in commercial vehicles. Improvements of such products also will accelerate the development of next-generation products to be used in passenger vehicles, including a system to help drivers return to driving mode during Level 3 of autonomous drive.

This collaboration will combine DENSO's accumulated experience in improving the robustness of cabin sensing innovations and FotoNation's sophisticated facial image recognition and neural network technologies. By combining technologies of the two companies, DENSO will be able to achieve the world's most sophisticated driver status detection, which will not be affected by differences between individual faces, or by sunglasses, masks, and other facial coverings, in the vehicle cabin where environmental light changes dramatically.

Since 2014, DENSO has provided a Driver Status Monitor for heavy trucks and large sightseeing buses. This advanced safety product uses a cabin camera to capture images of the driver and computer vision technology to detect the driver's face angle to determine the level of drowsiness. Using its proprietary algorithm to carefully analyze the driver's eye blinking, DENSO's driver status monitor can detect driver drowsiness and alert the driver when it judges the driver is distracted or falling asleep at the wheel, to help prevent traffic accidents.

With its superior technologies, FotoNation has led computer imaging solutions integration for more than 10 years. FotoNation has maintained market leadership in the mobile image recognition segment and its technologies are installed in various devices such as mobile phones, digital cameras, drones and security cameras, with approximately 25 percent of world's smartphones using its image recognition technology.

"Understanding the status of the driver and engaging them at the right time is an important component for enabling the future of autonomous driving," said Yukihiro Kato, senior executive director, Information & Safety Systems Business Group of DENSO. "I believe this collaboration with Xperi will help accelerate our innovative ADAS product development by bringing together the unique expertise of both our companies."

"We are excited to partner with DENSO to innovate in such a dynamic field," said Jon Kirchner, CEO of Xperi Corporation. "This partnership will play a significant role in paving the way to the ultimate goal of safer roadways through use of our imaging and facial analytics technologies and DENSO's vast experience in the space."

Using FotoNation's facial image recognition and neural networks technologies, detection accuracy will be increased remarkably by detecting much more features instead of using the conventional detection method based on the relative positions of the eyes, nose, mouth, and other facial regions. Moreover, DENSO will develop new functions, such as those to detect the driver's gaze direction and facial expressions more accurately, to understand the state of mind of the driver in order to help create more comfortable vehicles.

DENSO will exhibit a prototype next-generation driver status monitor at the Tokyo Motor Show from October 27 to November 5, 2017.

### 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).

## **About Xperi Corporation**

Xperi Corporation (Nasdaq: XPER) and its brands, DTS, FotoNation, HD Radio, Invensas and Tessera, are dedicated to creating innovative technology solutions that enable extraordinary experiences for people around the world. Xperi's solutions are licensed by hundreds of leading global partners and have shipped in billions of products in areas including premium audio, broadcast, automotive, computational imaging, computer vision, mobile computing and communications, memory, data storage, and 3D semiconductor interconnect and packaging. For more information, please call 408-321-6000 or visit [www.xperi.com](http://www.xperi.com).

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This press release contains forward-looking statements, which are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve risks and uncertainties that could cause actual results to differ significantly from those projected, particularly with respect to the collaboration and development with Denso and the features, benefits and characteristics of the driver status monitor to be developed. Material factors that may cause results to differ from the statements made include the plans or operations relating to the businesses of Xperi Corporation (the "Company"); market or industry conditions; changes in patent laws, regulation or enforcement, or other factors that might affect the Company's ability to protect or realize the value of its intellectual property; the expiration of license agreements and the cessation of related royalty income; the failure, inability or refusal of licensees to pay royalties; initiation, delays, setbacks or losses relating to the Company's intellectual property or intellectual property litigations, or invalidation or limitation of key patents; fluctuations in operating results due to the timing of new license agreements and royalties, or due to legal costs; the risk of a decline in demand for semiconductors and products utilizing our audio and imaging technologies; failure by the industry to use technologies covered by the Company's patents; the expiration of the Company's patents; the Company's ability to successfully complete and integrate acquisitions of businesses; the risk of loss of, or decreases in production orders from, customers of acquired businesses; financial and regulatory risks associated with the international nature of the Company's businesses; failure of the Company's products to achieve technological feasibility or profitability; failure to successfully commercialize the Company's products; changes in demand for the products of the Company's customers; limited opportunities to license technologies due to high concentration in applicable markets for such technologies; the impact of competing technologies on the demand for the Company's technologies; failure to realize the anticipated benefits of the Company's recent acquisition of DTS, Inc., including as a result of integrating the business of DTS; pricing trends, including the Company's ability to achieve economies of scale; the expected amount and timing of cost savings and operating synergies; and other developments in the markets in which the Company operates, as well as management's response to any of the aforementioned factors. You are cautioned not to place undue reliance on the forward-looking statements, which speak only as of the date of this release.

The foregoing review of important factors should not be construed as exhaustive and should be read in conjunction with the other cautionary statements that are included herein and elsewhere, including the Risk Factors included in the Company's recent reports on Form 10-K and Form 10-Q and other documents of the Company on file with the Securities and Exchange Commission (the "SEC"). The Company's SEC filings are available publicly on the SEC's website at [www.sec.gov](http://www.sec.gov). Any forward-looking statements made or incorporated by reference herein are qualified in their entirety by these cautionary statements, and there can be no assurance that the actual results or developments anticipated by the Company will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, the Company or its business or operations. Except to the extent required by applicable law, the Company undertakes no obligation to update publicly or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.

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