FLIR Systems Partners with Veoneer for First Thermal Sensor-Equipped Production Self-Driving Car with a Leading Global Automaker

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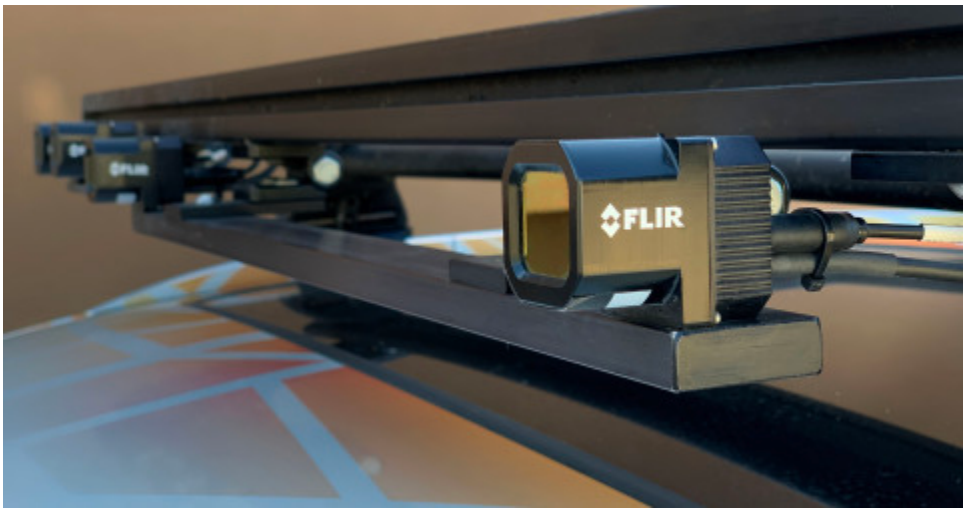
Automaker to Become the Industry's First of Many to Feature Thermal Sensing to Improve Safety of Autonomous Vehicles

ARLINGTON, Va.--(BUSINESS WIRE)--Oct. 30, 2019-- FLIR Systems, Inc. (NASDAQ: FLIR) today announced that its Boson®-based thermal sensing technology has been selected by Veoneer, a tier-one automotive supplier, for its level-four autonomous vehicle (AV) production contract with a top global automaker, planned for 2021.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20191030005258/en/



FLIR Systems' thermal imaging sensor has been selected by tier-one automotive supplier, Veoneer, for their autonomous vehicle production contract with a top global automaker. (Photo: Business Wire)

The Veoneer system will be the first in the industry to include multiple thermal sensing cameras that provide both narrow and wide field-of-view capabilities to enhance the safety of self-driving vehicles. Thermal sensing cameras excel in driving situations where other sensor technologies are challenged, including low-visibility and high-contrast conditions such as: nighttime, shadows, dusk, or sunrise; while facing direct sun or headlight glare; and in challenging weather conditions including fog and environmental conditions such as smoke. When combined with analytics, thermal sensing cameras can help detect and classify a broad range of common roadway objects and are especially adept at detecting people and other living things, what AVs want to avoid most.

With the ability to see up to four times farther than headlights at night, thermal sensors detect the heat given off by everything. This "invisible" advantage offers additional data to the existing suite of AV sensors to improve reliability and redundancy, thereby facilitating better decision making.

"As the automotive industry undertakes the enormous technical challenge of building safe autonomous vehicles, cutting-edge sensing technologies, including thermal, are needed to save lives and provide greater situational awareness in all conditions," said Frank Pennisi, President, FLIR Systems' Industrial Business Unit. "FLIR's automotive-qualified thermal sensing cores are a key component of Veoneer's thermal sensing cameras and systems, which have proven effective on hundreds of thousands of passenger vehicles to date. This selection shows the value of thermal sensing for self-driving applications, paving the way for future adoption by other automotive manufacturers."

FLIR thermal sensing cores are also part of Veoneer's fourth generation thermal sensing system scheduled to launch next year. With more than a decade of experience in the automotive industry, FLIR has been a key partner of Veoneer to support driver early-warning systems in vehicles from General Motors, Volkswagen, Audi, Peugeot, BMW, and Mercedes-Benz. This latest contract represents a new phase for FLIR and its thermal sensing technology for the benefit of autonomous, or self-driving vehicles.

To learn more, visit www.flir.com/safercars.

About FLIR Systems, Inc.

Founded in 1978, FLIR Systems is a world-leading industrial technology company focused on intelligent sensing solutions for defense, industrial, and commercial applications. FLIR Systems' vision is to be "The World's Sixth Sense," creating technologies to help professionals make more informed decisions that save lives and livelihoods. For more information, please visit www.flir.com and follow @flir.

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