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Technology claims "near 100%" obstacle detection

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The technology incorporates accurate image-processing algorithms and sensor fusion for superior detection

Foresight claims to be setting the standard for autonomous vehicle vision

Automotive vision systems specialist, Foresight Autonomous Holdings, will use CES 2018 in Las Vegas to introduce its QuadSight vehicle vision system, which it claims achieves near-100 per cent obstacle detection under all weather conditions with near zero false starts.

QuadSight targets the semi-autonomous and autonomous vehicle markets. Using proven, highly advanced image-processing algorithms, it utilises four-camera technology that combines two pairs each of stereoscopic infrared and daylight cameras.

The innovation is derived directly from field-proven security technology and incorporates accurate image-processing algorithms and sensor fusion, which claims to be effective under any weather or lighting conditions, including complete darkness, rain, haze, fog and glare.

“At Foresight, we believe that a car’s vision system should be nothing less than perfect,” said Haim Siboni, CEO of Foresight. “Vision is the foundation of passenger safety, and vision perfection under all weather and lighting conditions is clearly the breakthrough that vehicle makers need to build consumer confidence in order to accelerate autonomous vehicle adoption.”

“Because vision perfection is that elusive capability autonomous vehicle makers have long pursued, the potential impact of Foresight’s breakthrough cannot be overstated,” said leading market analyst Jean-Christophe Eloy, President, CEO and founder of Yole Développement, part of the Yole group of companies, which includes System Plus Consulting, KnowMade, PISEO and Blumorpho.

“In a single stroke, QuadSight surpasses so many other approaches that simply can’t address the real world need for all-weather, all-conditions driving, making it the relevant answer for the industry’s long-term trajectory.”

Stereoscopic vision technology’s three-dimensional (3D) images, detection and accuracy are essential for safe and reliable semi-autonomous and autonomous vehicle vision systems.

Stereoscopic cameras exceed a human driver’s ability to see 3D objects in real time, whether objects are large or small, in-motion or static, or detected from short or long-range distances. The dynamic driving environment demands a level of accuracy that only stereoscopic cameras can provide.

CES 2018 attendees can view an in-car QuadSight demo at Foresight's booth at 7538. The event runs from 9-12 January at Las Vegas Convention Centre, Las Vegas.

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