

Press Release

Tiny brother is watching you!

“Golden Palm” for an intelligent camera from CSEM

Neuchâtel, April 4, 2017 – To be able to detect and in particular to identify a person thanks to a tiny, completely standalone vision system – this is the technological feat made possible by the solution developed by CSEM for its VIP camera. This concept, which is for example promising for applications in the security and automobile industries, won over the jury of Vision System Design magazine, which awarded it one of the gold medals in its competition dedicated to vision technologies.

The very small facial detection-and-recognition system developed by CSEM impressed the jury of the American magazine [Vision System Design](#). It awarded this product one of its gold medals in its competition, which was organized as part of the [Automate Show](#) trade fair, which is held each year in Chicago. Launched in 2015, this competition rewards the most innovative products and services from the vision and image-processing industry.

Small, intelligent and standalone

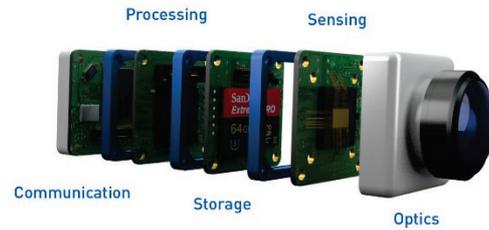
With a volume of only 6 cm³, the [VIP](#) (Vision-In-Package system) camera today remains the smallest completely standalone intelligent vision system in the world. CSEM’s scientists have developed a powerful detection and facial-recognition algorithm which is adapted to its very small size. It was the combination of these two features that persuaded the Vision System Design jury. This makes the product a very interesting option for areas such as security, industrial production and transport. This system enables, for example, the automatic configuration of a vehicle, depending on the driver.

A flexible solution

This gold medal once more establishes CSEM’s expertise in the development of intelligent, low-energy-consumption miniaturized systems. There are particularly interesting perspectives in the domain of vision systems, especially as the technology used for the VIP camera is adaptable and customizable. In an even smaller format it fits, for example, in the [Biowatch](#) security bracelet developed for the Swiss company Biowave.



At only 6 cm³, the VIP camera is a standalone solution for detecting and identifying people.



Four layers enable the sensing, storage, processing and communication of the images.

Additional information

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About CSEM

CSEM—technologies that make the difference

CSEM, founded in 1984, is a Swiss research and development center (public-private partnership) specializing in microtechnology, nanotechnology, microelectronics, system engineering, photovoltaics and communications technologies. Around 450 highly qualified specialists from various scientific and technical disciplines work for CSEM in Neuchâtel, Zurich, Muttenz, Alpnach, and Landquart.

Further information is available at www.csem.ch



About Vision Systems Design

Published since 1996, Vision Systems Design is a global resource for engineers, engineering managers and systems integrators that provides comprehensive global coverage of vision systems technologies, applications, and markets. Vision Systems Design's magazine, website (www.vision-systems.com), email newsletters and webcasts report on and analyze the latest technology and business developments and trends in the worldwide machine vision and image processing industry.

About The Vision Systems Design 2017 Innovators Awards program

The Vision Systems Design 2017 Innovators Awards program reviewed and recognized the most innovative products and services in the vision and image processing industry. Honorees were announced at Automate 2017 held in Chicago, Illinois, USA. Criteria used in the Innovators Awards ranking included: originality, innovation; impact on designers, systems integrators and end-users; fulfilling a need in the market that hasn't been addressed, leveraging a novel technology, and increasing productivity.