



Ambarella and Baolong Technology Partner to Develop Advanced AI Driver Monitoring Platform

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Platform to leverage Ambarella's high-performance, low-power CVflow[®] computer vision architecture and Baolong's automotive visual perception algorithms

SHANGHAI--(BUSINESS WIRE)--Jun. 3, 2019-- Ambarella, Inc. (NASDAQ: AMBA), a leading developer of high-resolution video processing and computer vision semiconductors, and Shanghai Baolong Automotive Technology Co., Ltd., a leading supplier of intelligent automotive sensors, today announced a joint project to develop a high-performance driver monitoring system (DMS) platform with advanced artificial intelligence (AI) capabilities for assessing driver fatigue. The DMS platform will be based on Ambarella's CV22AQ CVflow[®] computer vision chip and Baolong's visual perception software.

"Our partnership with Ambarella to develop an advanced AI-based DMS solution will help enable the automotive industry's shift toward including driver monitoring in production vehicles," said Li Wei, director of Baolong's electronics unit. "Ambarella's CV22AQ CVflow computer vision processor is ideal for our visual perception algorithms: it provides the high performance and low-power consumption required for compact DMS camera designs."

"We are pleased to be collaborating with Baolong to enable next-generation automotive cameras for improved driver safety," said Ambarella CEO Fermi Wang. "With this joint platform, our customers gain a high-resolution, high-accuracy DMS solution with advanced AI features."

Baolong's DMS software captures the driver's facial information, including characteristics of the eyes, head, and mouth from an image sensor. Ambarella's computer vision SoC then performs image processing and AI-based analysis to determine the driver's level of fatigue in real time.

Ambarella's CV22AQ chip offers support for both global shutter and rolling shutter CMOS sensors, a requirement for applications deployed inside a vehicle's cabin. The CV22AQ includes a powerful ISP, native support for RGB-IR color filter arrays, and advanced high dynamic range (HDR) processing, which results in exceptional image quality in low-light and high-contrast environments. CV22AQ's CVflow architecture delivers the computational power required for multi-camera DMS solutions, while running multiple AI algorithms on each video stream. CV22AQ includes a suite of advanced security features to protect against hacking, including secure boot, TrustZone™, and I/O virtualization.

The URL for this news release and the related image is: <https://www.ambarella.com/news/ambarella-and-baolong-dms/>

About Baolong Technology

Shanghai Baolong Automobile Technology Co., Ltd. was established in 1997 and is headquartered in Songjiang District, Shanghai. Baolong is dedicated to research and development, manufacturing, and sales of automotive parts worldwide, and has production offices, R&D facilities, and sales branches in the United States, Germany, Poland, and Japan, with more than 3,900 employees around the world. The company's technology center has been recognized as a national-level enterprise technology center, and the company has been honored as a national-level intellectual property advantage enterprise, winning several honors from leading automotive OEMs. The company specializes in smart automotive solutions such as tire pressure monitoring systems (TPMS), automotive sensors, and advanced driver assistance systems (ADAS). For more information, please visit: <http://www.baolong.biz>

About Ambarella

Ambarella's products are used in a wide variety of human and computer vision applications, including video security, advanced driver assistance systems (ADAS), electronic mirror, drive recorder, driver/cabin monitoring, autonomous driving, and robotic applications. Ambarella's low-power SoCs offer high-resolution video compression, advanced image processing, and powerful deep neural network processing to enable intelligent cameras to extract valuable data from high-resolution video streams. For more information, please visit www.ambarella.com

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