



Ambarella to Demonstrate New Robotics Platform During CES 2020

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New platform enables quick development of robotics applications based on Ambarella's CVflow® SoCs

LAS VEGAS--(BUSINESS WIRE)--Jan. 2, 2020-- Ambarella, Inc. (Nasdaq: AMBA), an AI vision silicon company, today announced that it will demonstrate its new robotics platform during CES 2020. Based on Ambarella's CVflow® architecture, it targets automated guided vehicles (AGV), consumer robots, industrial robots, and emerging Industry 4.0 applications. The robotics platform provides a unified software infrastructure for robotics perception across Ambarella's CVflow SoC family including the CV2, CV22, CV25, and S6LM. It provides easy access and acceleration for the most common robotics functions including stereo processing, key points extraction, neural network processing, and Open Source Computer Vision Library (OpenCV) functions.

Ambarella will demonstrate the highest-end version of the platform during CES 2020: A single CV2 chip will perform stereo processing (up to 4Kp30 or multiple 1080p30 pairs), object detection, key points tracking, occupancy grid, and visual odometry. This high level of computer vision performance combined with Ambarella's advanced image processing—with native multi-camera support (up to 6 direct camera inputs on CV2, and 3 on CV25)—enables robotics designs that are both simpler and more powerful than traditional robotics architectures.

"With all eyes on the future of home and industrial robotics, we are thrilled to introduce and demonstrate this high performance robotics platform during CES to our manufacturing partners and customers," said Jerome Gigot, senior director of marketing at Ambarella. "Combining the best of Ambarella's advanced imaging capabilities with our high-performance CVflow architecture for computer vision, the new platform will help enable a new breed of smarter and more efficient consumer and industrial robots."

The platform supports both the Linux operating system as well as the ThreadX® RTOS for systems requiring functional safety, and it comes with a complete toolkit for image tuning, neural network porting, and computer vision algorithm development. It also supports the Robotics Operating System (ROS) for easier development and visualization. A rich set of APIs makes it possible for application developers to efficiently run higher-level algorithms including optical flow, visual odometry, and obstacle detection.

The new robotics platform and its related development kits are available today and can be paired with various mono and stereo configurations, as well as rolling shutter, global shutter, and IR sensor options.

Ambarella will demonstrate the new platform to select customers and partners during CES 2020.

The URL for this news release is <https://www.ambarella.com/news-events/>

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 system on chips (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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