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Ambarella A12W Reference Design Kit Enables New Generation of Wearable Police and Security Cameras

New A12W camera SoC enables Full HD dual lens designs with wireless streaming

SANTA CLARA, Calif.--(BUSINESS WIRE)-- Ambarella, Inc., a leader in low-power, high-definition and Ultra HD video compression and image-processing solutions, today announced availability of the Ambarella A12W Wearable Security Reference Design Kit (RDK). The A12W RDK enables fast development of a new generation of compact, ultra low-power, body-worn HD video cameras suitable for police and security applications. The RDK is based on the new Ambarella A12W ultra low-power HD camera System-On-Chip (SoC) which can encode a Full HD 1080p30 video stream plus a second HD stream for dual lens camera designs with wireless streaming. The A12W includes advanced Electronic Image Stabilization (EIS) for stable video recording during motion and High Dynamic Range (HDR) processing for clear images in challenging light conditions. Fabricated in low power 28nm process technology, the A12W supports the long battery life requirements of wearable police and security cameras.

"The market for body-worn police and security cameras is set to expand as police departments and citizens increasingly demand clear video evidence," said Chris Day, Ambarella VP of Marketing and Business Development. "Ambarella's A12W wearable security reference design kit enables development of Full HD, dual lens, wearable cameras capable of working in extreme light conditions and streaming video directly to the cloud."

The A12W system supports dual camera inputs; the main body-worn camera is capable of encoding Full HD at 60 frames per second (fps) or 2560x1440 at 15fps, while a second, head or shoulder mounted camera, captures video in Full HD at 30fps. The system is able to wirelessly stream video via Wi-Fi, Bluetooth or 4G/LTE. The A12W includes a powerful ARM® Cortex®-A9 CPU to run customer applications and analytics software, and also integrates on-chip de-warping for wide-angle camera designs. The A12W RDK includes a complete software developer's kit with full photographic and video functionality as well as wireless connectivity options.

Pricing and Availability

Pricing and availability information can be obtained directly from Ambarella at <http://www.ambarella.com/about/contact/inquiries>.

The URL for this news release is: www.ambarella.com/about/news-events.html

The URL for the related image is: www.ambarella.com/about/news-events/press-images/police-wearable-reference-kit-images.html

About Ambarella

Ambarella, Inc. (NASDAQ:AMBA) is a leading developer of low-power, high-definition (HD) and Ultra HD video compression and image processing solutions. The company's products are used in a variety of HD cameras including security IP-cameras, sports cameras, wearable cameras, flying cameras and automotive video camera recorders. Ambarella compression chips are also used in broadcasting TV programs worldwide. Ambarella is the recipient of the Global Semiconductor Alliance 2014 Award for "Most Respected Emerging Public Semiconductor Company." For more information about Ambarella, please visit www.ambarella.com

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Ambarella Contact:

www.ambarella.com/about/contact/inquiries

or

Media Contact:

Valley Public Relations

Molly McCarthy, +1 408-978-1168

molly@valleypublicrelations.com

or

Investor Relations Contact:

Deborah Stapleton, +1 650-815-1239

deb@stapleton.com

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