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Ambarella Introduces H22, a 4K Ultra HD SoC for the Next Generation of Drones and Sports Cameras

New 14nm SoC delivers 4Kp60 Ultra HD video, 4K Image Stabilization, and 4K High Dynamic Range (HDR) processing with very low power

SANTA CLARA, Calif.--(BUSINESS WIRE)-- Ambarella, Inc. (NASDAQ:AMBA), a leading developer of low-power, HD and Ultra HD video processing semiconductors, today introduced the H22 System-On-Chip (SoC) targeting a new generation of 4K drones and sports cameras with leading-edge video features.

The new H22 SoC is capable of encoding 4K Ultra HD video at 60 frames per second using the H.265 (HEVC) or H.264 (AVC) video formats, and supports advanced Electronic Image Stabilization (EIS) up to 4K resolution. The on-board 1.2 GHz Quad-Core ARM® Cortex®-A53 CPU provides significant processing power for customer applications including flying camera flight control, advanced analytics, video stitching and wireless networking. Fabricated in 14nm process technology, the H22 offers very low power consumption, enabling 4K cameras with small form factors and extended battery life.

"The H22 brings 4Kp60 Ultra HD video at extremely low power into the mainstream," said Chris Day, VP of marketing and business development at Ambarella. "With 4K HDR, 4K EIS, and a quad-core CPU, the H22 enables a new generation of drones and sports cameras with outstanding video quality and extended battery life."

The H22 includes a highly optimized image processing pipeline with excellent imaging and advanced noise reduction, and a hardware de-warp engine to support wide-angle panoramic designs with minimal distortion. The device's 4K EIS can augment or potentially eliminate the need for a mechanical gimbal in a drone. The ability to encode at high frame rates, including 4Kp60 and 1080p120, delivers smooth slow motion, high definition video even during fast action shots.

A typical use case for the H22 in a drone might be to simultaneously encode 4K Ultra HD video, stabilize it in real time using EIS, and execute flight control algorithms using input from an array of sensors including an optical flow sensor. Additionally, a second, low-delay, Full-HD live video stream may be processed, encoded and wirelessly transmitted to the pilot for monitoring and camera control.

Ambarella will demonstrate the new H22 device at a private, invitation only event held during the Consumer Electronics Show (CES) in Las Vegas, January 5 - 8, 2017.

For pricing and availability, please contact Ambarella at www.ambarella.com/about/contact/inquiries

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About Ambarella

Ambarella, Inc. (NASDAQ: AMBA), is a leading developer of low-power, high-definition and Ultra HD video compression and image processing solutions. The company's products are used in a variety of cameras including security IP-cameras, wearable cameras, drone cameras and automotive video processing solutions. Ambarella compression chips are also used in broadcasting TV programs worldwide. Ambarella is the recipient of the Global Semiconductor Alliance 2015 awards for "Most Respected Public Semiconductor Company" and "Best Financially Managed Semiconductor Company," both with sales of between \$100M and \$500M. For more information about Ambarella, please visit www.ambarella.com.

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