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Ambarella Introduces Low Power 4K Ultra HD SoCs for Sports and Flying Cameras

Ambarella H2 delivers 4K Ultra HD at 60 frames per second with under 2 Watts of power consumption

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 H2 and H12 camera System-on-Chips (SoCs) for a new generation of sports and flying cameras. H2 targets high-end camera models with 4K Ultra HD H.265/HEVC video at 60 frames per second and 4K AVC video at 120 frames per second. These high frame rates deliver smooth video during fast action shots and slow motion playback. H2 also includes 10-bit High Dynamic Range (HDR) video processing to handle high contrast scenes and supports DSLR quality photography. H12 targets mainstream cameras and offers 4K Ultra HD HEVC video at 30 frames per second. Both SoCs have extremely low power consumption allowing for the design of small form factor cameras, and feature advanced 3D electronic image stabilization, potentially eliminating the need for mechanical gimbals.

"With the introduction of H2 and H12 we now provide a complete portfolio of 4K Ultra HD HEVC solutions for sports and flying cameras," said Fermi Wang, President and CEO of Ambarella. "H2, our first 14nm chip, delivers 4Kp60 Ultra HD HEVC video with 10-bit HDR processing, as supported by the latest generation of 4K HDR televisions. H12 delivers 4Kp30 Ultra HD HEVC video for outstanding video quality at mainstream camera price points."

H2 features a new generation image processing pipeline which includes 10-bit HDR video processing and excellent imaging, even in challenging low-light conditions. The integration of a 1.2 GHz quad-core ARM® Cortex®-A53 CPU with floating point and NEON^{TM} provides significant processing power for customer applications including flying camera flight control, video analytics and wireless networking. Its hardware de-warp engine supports wide-angle panoramic camera designs, while USB 3.0 connectivity provides fast upload of high resolution video. H2 supports live streaming of a second, low-delay, Full HD video stream for wireless monitoring and camera control.

H12 supports both 4Kp30 Ultra HD HEVC and AVC video encoding. It integrates a 1GHz single-core ARM® Cortex®-A9 CPU with floating point and NEON^{TM} to provide the processing power required for customer applications including flying camera flight control and wireless networking. Its de-warp capability allows the use of wide-angle lenses with minimal image distortion. H12 also supports the live video streaming of a second, low-delay Full HD video stream.

Ambarella will demonstrate both H2 and H12 at a private event during the Consumer Electronics Show in Las Vegas, January 6 - 9, 2016.

Pricing and Availability

For pricing and availability please contact Ambarella at 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/H2-H12-press-images.html

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, flying cameras and automotive video processing solutions. Ambarella compression chips are also used in broadcasting TV programs worldwide.Â Ambarella is the recipient of the Global Semiconductor Alliance 2015 awards for "Most Respected Public Semiconductor Company" and "Best Financially Managed Semiconductor Company," with sales of between $100M and $500M. For more information about Ambarella, please visitÂ 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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