

Socionext Introduces New Milbeaut Image Processor - The Most Advanced and Full Featured 4K Product Available Today

The Latest Algorithm Enables Low Power Consumption and High-Speed Processing of Image Data

Langen/Germany, January 5, 2017 --- Socionext Inc. today introduced the new "SC2000", a new image processing IC designed for drones and action cameras. The SC2000 is a new product from the "M10V" series, an eighth-generation version of Socionext's Milbeaut Image Processors. It features the latest improvement in Socionext's proprietary Milbeaut image processing algorithm and achieves the optimum combination of high performance and low power consumption at the same time. Samples and SDKs are available today.

Since its first release in 2000, the Milbeaut series of image processors has established a track record in a broad range of applications from digital SLR cameras to smartphones, as well as industrial equipment. In recent years, video shooting using drones or action cameras has become more popular, and requirements for higher definition and video image quality are growing rapidly. High-speed processing of increased image data at low power is now an essential for these applications.

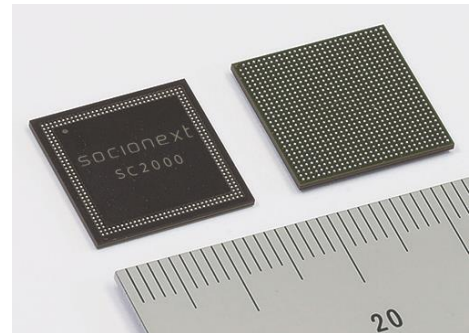


Photo: SC2000

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The new SC2000 has been developed to meet the challenge by incorporating the latest improvement in Socionext's proprietary Milbeaut image processing algorithm. Equipped with a digital signal processor optimized for computer vision, it also features advanced functionalities such as 360-degree, real-time panorama stitching with four cameras, image stabilization without mechanical gimbals, and rolling shutter correction. The image processing rate is 1.2 gigapixels per second, three times faster than the company's previous processor, while the power consumption is as low as 1.7 Watt in typical operating conditions.

Socionext will continue on its evolution and growth of the Milbeaut processors to provide optimal solutions for various camera and imaging applications.

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Main specifications of the SC2000 include:

CPU	ARM Cortex A7 Quad 660MHz
Sensor Interface	SLVS-EC, MIPI D-PHY, MIPI C-PHY, subLVDS
Interface	PCIe Gen2 (2 lanes), USB2.0 Host/Device, USB3.0 Device, SD, UHS-I/UHS-II, RGMII for Gigabit Ethernet
Image Processing	Simultaneous Processing of HEVC Codec and H.264 Codec
IPs	3-D Noise Reduction, Wide Dynamic Range Correction, HDR Support, Distortion Correction, Video Image Stabilization, Still Image Stabilization, Defective Pixel Correction

About Socionext Inc.

Socionext is a new, innovative enterprise that designs, develops and delivers System-on-Chip products to customers worldwide. The company is focused on imaging, networking, computing and other dynamic technologies that drive today's leading-edge applications. Socionext combines world-class expertise, experience, and an extensive IP portfolio to provide exceptional solutions and ensure a better quality of experience for customers. Founded in 2015, Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its product development and sales activities. For more information, visit socionext.com.

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