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Socionext and Partners Taking Vision Learning to the Next Level at the Annual ISC-West in Las Vegas

Featuring Leading-Edge Image Processors and Advanced AI Edge Solutions for Video Monitoring, Surveillance and Security Camera Applications

Langen/Germany, 25. March, 2019 --- Socionext Inc., a global leader in advanced image processing technology, will feature a lineup of high-quality, high-performance imaging technology and solutions featuring the company's Milbeaut® series of image signal processors and edge server for security, surveillance and video monitoring systems at the annual ISC West - International Security Conference in Las Vegas April 10 – 12, booth 32107.

Socionext's Edge Solution

In security applications today, there are growing demands for processing power at the edge node, not only for low latency but also for the concerns of sending sensitive information to the cloud. At this year's ISC-West, Socionext will showcase variation of low-power edge solutions, including AI capability built inside camera devices, and edge AI server that controls multiple cameras.

Robust, Multi-Face Detection and Recognition by In-Camera Devices

Socionext, in partnership with industry experts, has developed a convolutional neural network (CNN) / deep learning solution enabling the adoption of AI at the edge. The company will demonstrate a solution for multi-face detection and recognition suitable for surveillance applications with visual search functionalities. The vision AI solution performs extremely well under poor lighting conditions, with the capability to recognize occluded, oblique faces, as well as locate and identify multiple objects and people in a single scene. New feature allows for instant face and meta data capture by devices installed in the cameras and then sent to the cloud for deep learning inference accuracies to the edge, similar to the deep learning models in the datacenter.

Featured in this demonstration is Socionext's Milbeaut SC2000, which is designed for challenging computer vision applications such as high- performance security cameras. The SC2000 offers state-of-the-art image quality that allows for improved recognition by both humans and machines.
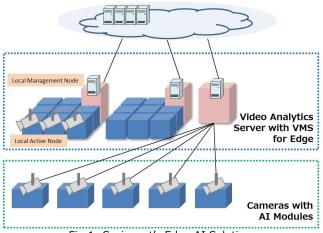
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Fig.1: Socionext's Edge AI Solutions
([View Larger Image](#))

Real-Time Object Detection and VMS Systems for Edge Surveillance Applications

Socionext will showcase a high-speed, high-performance and energy-efficient AI solution designed for surveillance and security applications. The solution features AI accelerator edge solution and Socionext's Arm-based "SynQuacer" SC2A11 processor.

Socionext and partners have developed the video management system (VMS) with AI accelerator for delivering superior parallel processing performance with video analytics capabilities such as image classification, face recognition, and object detection. The system is capable of delivering multiple channels of video images captured from IP cameras in real-time. All video analytics are done by the AI accelerator and SynQuacer processor at the edge, with the capability of tagging metadata to the streamed videos for added intelligence in video surveillance and proactive detection.

Industry-Leading Image Processor with 3DNR and WDR

The company will also feature its ultra-low power SC2002 image processor which incorporates the world's best 3DNR (Three-Dimensional Noise Reduction) and the WDR (Wide Dynamic Range) functionalities for capturing high-quality images under obscure, poor light quality conditions. The SC2002 consumes at a mere 1.5W in typical operating conditions and is equipped with a high-performance DSP with built-in intelligence, which enables a wide-range of video monitoring and security camera systems optimized for crime prevention.

For ISC West website and programs, visit http://www.iscwest.com/Show-Info/

SC2000 product information: http://www.socionext.com/en/products/assp/milbeaut/SC2000.html
SC2002 product information: http://www.socionext.com/en/products/assp/milbeaut/SC2002.html
SynQuacer product information: https://www.socionext.com/en/products/assp/SynQuacer/

About Socionext Inc.

Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip solutions 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.