PRESS RELEASE
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For immediate release

e-con Systems launches 5MP Low Noise USB 3.1 Gen 1 Camera

See3CAM_CU55 – 5MP Low Noise Fixed focus USB 3.1 Gen1 UVC Color Camera based on AR0521 CMOS Sensor and ISP from OnSemi™; Features superior low light sensitivity; Streams Full HD @60fps

ST. LOUIS and CHENNAI, India – Dec 13, 2018 - e-con Systems Inc., a leading camera solutions company, today announced the launch of See3CAM_CU55, a 5MP Custom lens USB 3.1 Gen1 UVC Color Camera. See3CAM_CU55 is based on the 1/2.5-inch AR0521, an 2.2m pixel BSI CMOS image sensor from OnSemi™. The See3CAM_CU55 is provided with the S-mount (M12) lens holder that enables customers to choose a lens of their choice. This See3CAM_CU55 streams FULL HD (1920 x 1080) at 60fps and HD (1280 x 720) at 60fps in both uncompressed (UYVY) and compressed MJPEG formats. e-con Systems launched the AR0330 (3.4MP) based Fixed Focus camera couple of years before. This camera has exactly same pixel size but comes with 5MP and higher Signal to Noise Ratio (SNR) 40 dbm. So, it will be much better in low light with lesser noise.

See3CAM_CU55 is ideal for customer applications where high resolution 5MP still images or Full HD video @ 60 fps are required. With S-mount lens holder, the See3CAM_CU55 is ideal for Smart Surveillance, Medical applications such as digital microscopy, Document Scanning cameras, Optical Character Recognition applications, smart parking lot management applications, high-resolution Microscopic/Magnification applications, Drones etc. The See3CAM_CU55 also highly suitable for high resolution video streaming, video conferencing and surveillance applications. Its humongous ultralow light sensitivity, excellent image quality with less noise will make it stand apart from other cameras.

Fig-1: See3CAM_CU55 Low Noise USB 3.1 Gen 1 Camera

"See3CAM_CU55 is our high-resolution USB UVC camera which produces best-in-class image quality with unprecedented low noise in its category. This camera will be an ideal camera for medical imaging, laboratory equipment imaging and high-resolution surveillance applications*" said* Mr. **Ashok Babu**, President of **e-con Systems Inc**. "The same camera can be offered with monochrome version of image sensor for biomedical microscopic applications and Near Infrared imaging applications such as iris recognition etc.", he added.

See3CAM_CU55 houses a high-performance Image Signal Processor chip (ISP) that performs all the Auto functions (Auto White Balance, Auto Exposure control) in addition to complete image signal processing pipeline that provides best-in-class images and video and the MJPEG compression. See3CAM_CU55 superior low light sensitivity enabling this camera work in extreme lighting conditions.
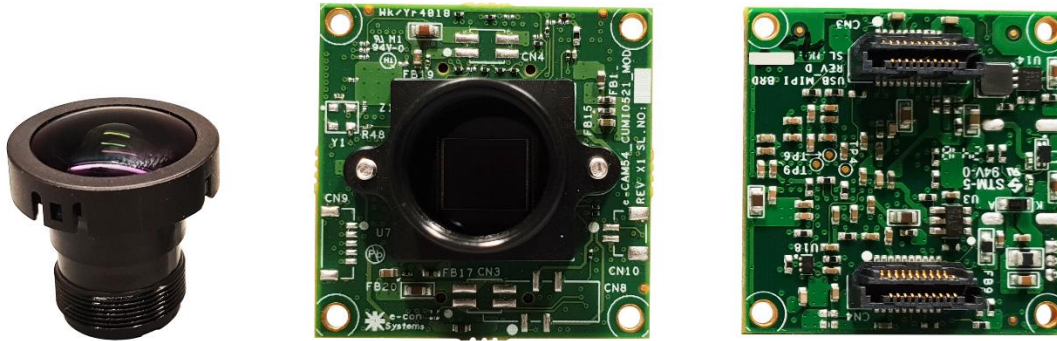

Fig-2: AR0521 Camera module, USB 3.0 Interface board and lens

Sample Application

e-con Systems provides sample Windows applications, e-CAMView and Linux application, QtCAM that uses the standard UVC protocol to access the camera controls. The e-CAMView, a DirectShow based image viewer application from e-con Systems enables controls such as Gain, Exposure, Saturation, Brightness, Contrast and various other controls. Region of interest-based Auto focus and Auto exposure is enabled through extension unit. The extension unit also enables to control Quality factor of MJEG streaming, Burst mode, iHDR, Scene mode, De-Noise and effects such as Sketch, Negative, Grayscale, etc. The Exposure time can be adjusted manually, and noise reduction level can also adjust manually. QtCAM – Open source Linux camera software application enables capturing and viewing video from devices supported by Linux UVC driver and also works with any V4L2 compatible device.

Availability

The See3CAM_CU55 is currently available for evaluation. Customers interested in evaluating the See3CAM_CU55 can order samples from e-con Systems' online store.

For more information, please visit 5.0 MP Low Noise USB Camera. Also watch See3CAM_CU55 demo video at https://www.youtube.com/watch?v=Nn43IaRt2RM

Customization

Customers interested in customizing See3CAM_CU55 can contact sales@e-consystems.com for any customization and additional features.

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About See3CAM

See3CAM is a series of UVC compliant USB 3.0 Cameras from e-con Systems, that are "plug and play" on Windows and Linux. See3CAM USB 3.0 Camera does not require additional device drivers and work with the standard Windows (DirectShow) and Linux (V4L2) software.

The See3CAM's USB 3.0 SuperSpeed connectivity enables it to capture images 1080p (Full HD) up to 60fps. These simple and cost-effective USB 3.0 Camera series solves the problem of implementing high quality video and image capture in applications such as Machine vision, barcode detection on moving objects and object tracking. e-con Systems provides customization services around these cameras to meet specific customer requirements. See3CAM are also backward compatible with USB 2.0 host.
For more information, please visit http://www.e-consystems.com/See3CAM-USB-3-Camera.asp

About e-con Systems

e-con Systems specializes in camera solutions with offerings like camera modules, USB camera modules, camera boards for various microprocessors, camera Device driver development services on Windows/Linux/Android Operating systems, Camera reference design, software ISP, camera customization and camera tuning.

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