



PRESS RELEASE

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For immediate release

e-con Systems launches 4K enabled 13MP Custom Lens USB 3.0 Camera

See3CAM_CU135 – 4K Custom Lens Fixed focus USB 3.0 Camera based on AR1335 CMOS Sensor and ISP from OnSemi™; Features i-HDR and superior low light sensitivity; Streams Ultra HD @30fps

ST. LOUIS and CHENNAI, India – May 31, 2017 - e-con Systems Inc., a leading camera solutions company, today announced the launch of See3CAM_CU135, a 4K Custom lens USB 3.0 Camera. See3CAM_CU135 is based on the 1/3.2-inch AR1335, an 1.1 pixel BSI CMOS image sensor from OnSemi™. The See3CAM_CU135 is provided with the S-mount (M12) lens holder that enables customers to choose a lens of their choice. The See3CAM_CU135 streams Ultra HD (3840 x 2160) at 30fps and 4K Cinema (4096 x 2196) @ 30fps over USB 3.0 in compressed MJPEG format. This See3CAM_CU135 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 AR1335 based Autofocus camera See3CAM_130 last year. Now it comes with Standard Mount (M12) Lens option as See3CAM_CU135.

See3CAM_CU135 is ideal for customer applications where high resolution 13MP still images or Ultra HD / HD video are required. With S-mount lens holder, the See3CAM_CU135 is ideal for Medical applications such as digital microscopy, Document Scanning cameras, Optical Character Recognition applications, smart surveillance, smart parking lot management applications, high-resolution Microscopic/Magnification applications, Drones etc. The See3CAM_CU135 also highly suitable for high resolution video streaming, video conferencing and surveillance applications. Its outstanding low light sensitivity, ROI based Auto functions and iHDR feature makes this camera standout compared to other high resolution cameras.



Fig-1: See3CAM_CU135 Custom Lens USB 3.0 Camera

“e-con’s AR1335 sensor based See3CAM_130 Autofocus camera has received impressive reviews of its features and image quality. Our customers have been impressed with its superior image quality and the bunch of features supported by that autofocus camera. Some of these customers have been asking for the M12 lens mount version of the same camera and e-con has come up with See3CAM_CU135.” said **Ashok Babu**, President of **e-con Systems Inc.** “The excellent image quality combined with better low light response and new set of features such as



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face detection, smile detection, ROI based Autoexposure, Digital Zoom, etc embedded inside the ISP will help our customers building smarter products with this smart camera!” he added.

See3CAM_CU135 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_CU135 features interlaced High Dynamic range (iHDR) and also superior low light sensitivity enabling this camera work in both extreme lighting conditions.



Fig-2: AR1335 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 MJPEG 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_CU135 is currently available for evaluation. Customers interested in evaluating the See3CAM_CU135 can order samples from e-con Systems' [online store](#).

For more information, please visit [13 MP Custom Lens USB 3.0 camera](#). Also watch See3CAM_CU135 demo video at <https://www.youtube.com/watch?v=mdmzCXexNK0>

Customization

Customers interested in customizing See3CAM_CU135 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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