PRESS RELEASE
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For release on January 29th only

e-con Systems augments its Industrial camera solutions with the launch of full color USB 3.0 camera

See3CAM_11CUG Featured with built-in ISP; HD streaming @30fps; Color camera for entry level machine vision applications

St. Louis, USA / Chennai, India – January 29th, 2014, **e-con Systems Inc.** a leading camera solutions company announces the launch of the See3CAM_11CUG, 1.3 MP UVC[i] compliant color USB 3.0 camera, as part of the See3CAM family of Industrial cameras. Being UVC compliant, See3CAM cameras are 'plug and play' on Windows and Linux with no additional device driver software required and the cameras work with standard Windows (DirectShow) and Linux (V4L2[ii]) software. e-con Systems had earlier launched the See3CAM_10CUG last year with monochrome and Raw Bayer RGB support.

This color USB 3.0 camera is targeted for entry level machine vision applications, object detection/recognition such as Pharmaceutical Capsule inspection & Food/beverage Sorting based on colors and other high-speed image capture applications. With an optically isolated external trigger input, the camera can be used in a variety of industrial automation and scientific applications.

The See3CAM_11CUG a 1.3 MP USB 3.0 camera is based on Aptina's MT9M031 color image sensor. The See3CAM_11CUG's SuperSpeed USB 3.0 connectivity enables it to capture images at 720p(HD) @30fps and 1280x960(Full Resolution) @20fps. Also 640x480(VGA) resolution at 60fps (Cropped) and 640x480 resolution at 30fps (with full FOV and binning) is supported. See3CAM_11CUG has an on board ISP that converts the RAW Bayer RGB data received from the sensor to the processed color YUV2 Image. With the ISP, gain adjustments, manual exposure control and adjustments in White balance with individual RGB gains can be supported. The camera has a CS-mount lens holder and is compatible with C-mount, CS-mount or even S-mount lenses, enabling the users to choose the lens as per their requirements. The camera has an external flash LED strobe output.

"With the See3CAM_11CUG our customers can leverage the built-in ISP of the camera to get a completely processed YUV output directly from the global shutter camera without any further image processing, along with other distinct advantages offered by the ISP. The See3CAM_11CUG will help our customers to develop industrial vision applications where object identification and recognition based on color are the important requirements" said Ashok Babu, President, e-con Systems.

Figure1: See3CAM_11CUG – 1.3 MP camera with CS Mount Lens holder

Figure2: See3CAM_11CUG_BX - 1.3MP USB 3.0 Camera with Enclosure

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Building applications with the See3CAM_11CUG is simple - any DirectShow compatible application can use the camera; much like any other UVC compliant webcam. The camera implements DirectShow capture filter pins for both preview/capture and still image capture. Still image capture can be triggered from PC software (user controlled), external switch (user controlled) and a trigger (external event controlled) signal from an external trigger source. The sample camera application demonstrates each of these use cases alongside common camera controls such as preview, auto-exposure and manual exposure control from 111µs to 1.45 seconds allowing customers to capture both fast-moving images and meet long exposure requirements.

Availability

To purchase online, the See3CAM_11CUG is available now on the e-con Systems' **Webstore** immediately.

For more information, please visit the See3CAM_11CUG **Product Webpage** or **Youtube demo video**.

About See3CAM

See3CAM is the new 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 at 720p (HD) @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 www.e-consystems.com/See3CAM-USB-3-Camera.asp

About e-con Systems
e-con Systems specializes camera solutions with offerings like camera modules, USB camera modules, camera Device driver development services on Operating systems like Android/WinCE, Camera reference design, Software ISP, camera customization services and camera tuning services.

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[i] USB Video Class
[ii] Video for Linux