PRESS RELEASE
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e-con Systems Launches Full HD Autofocus 8MP USB 3.0 Camera
See3CAM_80 based on Omnivision OV8825 sensor. Capable of uncompressed video streaming 1080p@30fps

ST. LOUIS and CHENNAI, India — Aug 20ᵗʰ 2013 — **e-con Systems Inc.,** a leading embedded design services company specializing in the development of advanced camera solutions announces the launch of the See3CAM_80, part of the See3CAM family of USB3.0 SuperSpeed cameras. The See3CAM_80 supports video streaming at resolutions of up to 1080p@30fps and includes an eight megapixel autofocus camera module, the e-CAM80_MI8825_MOD, with an OV8825 CMOS image sensor. The UVC compliant camera is plug-and-play in both Windows and Linux. In Windows, the camera is exposed as a DirectShow device and in Linux, as a V4L2 capture source.
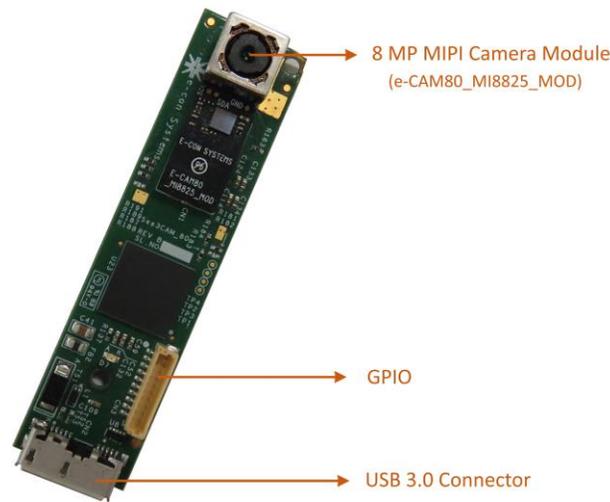

Fig: **See3CAM_80 camera with e-CAM80_MI8825_MOD module**

The See3CAM_80 supports VGA@30, 720p30, 1080p30 preview resolutions for high end video recording, video analytics and HD video conferencing applications. e-con is also bringing the full 8 Megapixel still image capture capability to regular PCs for very high resolution imaging applications. Above all, the See3CAM_80 can stream the full 8MP resolution video at around 11fps for applications where full image resolution required, but at a lower frame rate. All the above are uncompressed video and streaming is through the USB3.0 interface which supports about 5Gbps bandwidth.

The See3CAM_80 is ideal for customer applications such as document cameras/visualizers, high resolution OCR applications for large sheet sizes, medical and scientific applications such as tissue vision, pathology examination and microscopic applications where high resolution streaming - even at a low frame rate - is required.

The See3CAM_80 makes full use of the potential of its OmniVision's OV8825 CameraChip™ sensor. The OV8825 is a 1/3.2" optical format, 1.4 micron pixel raw image sensor with a four-lane MIPI CSI-2 interface and supports 720p60, 1080p60 and also 8MP at 24fps.

Third party Linux and Windows applications can use the standard UVC protocol to access the e-

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CAM80_MI8825_MOD camera module's built-in ISP. The ISP supports auto-exposure (AEC), AGC, auto-white balance (AWB) and image property controls such as brightness, saturation, AWB effects, sharpness and contrast. Special features, including manual focus, single-trigger and autofocus are available through the UVC extension interface, which is also provided by e-con.

"In the late nineties, one of OmniVision's core businesses was the VGA USB 1.0 camera, which helped put us in our current position as a leading camera supplier for today's PC, notebook and entertainment markets," **said Harish Iyer, product marketing manager at OmniVision**. "Leveraging our advanced 1.4-micron OmniBSI+™ pixel architecture, the OV8825's high performance and fast frame rate 1080p video provides key functionality for See3CAM_80's high bandwidth USB 3.0 solution. We are proud to see the high quality 8-megapixel OV8825 CameraChip™ in the See3CAM80 solution and view it as another major milestone of growth in resolution."

"See3CAM80 is the world's first 8MP USB3.0 UVC compliant, Autofocus camera solution that supports uncompressed 1080p video streaming at 30fps and is perfectly suited to high-resolution, high-speed video capture applications", said Mr Ashok Babu, President, e-con Systems. "I am excited about the launch of this camera and this will help our customers who have been looking for higher-resolution cameras with a USB3.0 interface for high-end imaging applications", he added.

Customers interested in evaluating the See3CAM_80 can order samples from e-con Systems' online store through online webstore. Samples will be available from 20th August 2013.

Customization services
Customers, who are interested in customizing See3CAM_80 should contact e-con Systems directly with their requirements. e-con Systems can also redesign the e-CAM80_MI8825_MOD module to suit customers' form factor needs or any other special requirement. Please email sales@e-consystems.com for further enquiries.

For more information, please visit the **8-megapixel USB Camera** page and video demo.

About See3CAM

The See3CAM is a family of UVC compatible USB3.0 SuperSpeed cameras from e-con Systems. The See3CAM family meets the needs of next generation high-speed, high-resolution imaging applications using USB 3.0 interface. See3CAM cameras support both Windows and Linux operating systems.

For more information, please visit the See 3CAM page.

About e-con Systems
e-con Systems is a leading product design services company in the embedded domain with significant expertise in camera solutions, including: camera modules, USB camera modules, device driver development services on operating systems such as Android/WinCE, camera reference design, software ISP, camera customization services and camera tuning services.

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For more information, please visit www.e-consystems.com/cameramodule.asp and www.e-consystems.com/cameraboard.asp.

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