

## Newsletter April 2011

All products are available through **ALRAD IMAGING** or **ALRAD ELECTRONICS** which are trading divisions of Alrad Instruments Ltd. If you would like more information on any of the items featured in this newsletter either telephone **01635 30345** or email **sales@alrad.co.uk**

### Join ALRAD at the Midlands Design and Manufacturing Exhibition.

Come to **Stand 1347** in Hall 9 at Midlands Design and Manufacturing Exhibition at the NEC on **6-7 April 2011** and see an array of the latest products from Alrad. This newsletter covers some of the items we will have on display on our stand. Come and tell us about your requirements and talk face to face with our technical experts. Register for the exhibition [here](#)



### Faster "plug and play" imaging with the new ARTCAM-900MI-USB3.0 camera from ARTRAY.



The ARTCAM-900MI-USB3.0 is the first of a USB3.0 camera range being launched by the Japanese CMOS and CCD camera specialist ARTRAY.

The ARTCAM-900MI-USB3.0 has a 9 Megapixel Aptina 1/ 2.3" format CMOS sensor with 3488 x 2616 pixels and a rolling shutter. The camera will deliver 11 frames per second, as compared to 3fps for its USB2.0 predecessor. The body has a standard C mount fitting and power is supplied via the USB3.0 interface which makes the camera easy to use in many different applications.

Optional items that can be supplied with the camera are a software development kit, software for two dimensional measurements, sequence recording software and a LabView DLL.

### The mvBlueFOX-MLC compact single board camera with integrated FPGA can be perfect for your OEM imaging application.

The **mvBlueFOX-MLC module** is a fully featured compact single-board camera perfectly targeted for space and cost sensitive OEM applications.

A superior image quality in combination with a high frame rate make the camera ideally suited for embedded applications. The driver in combination with the FPGA represents a perfect team which reduces the PC load to a minimum.

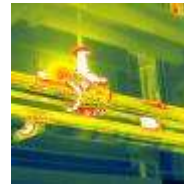
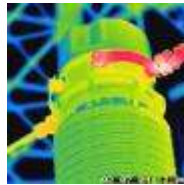
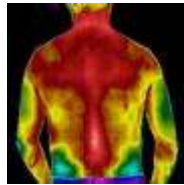
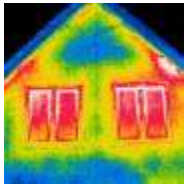
**Fully featured** means you will have the same features as the standard mvBlueFOX-2xx (with housing) on one single-board! Up until now, the mvBlueFOX-MLC has only been available with the WideVGA CMOS from Aptina (90 fps); however, on demand we can add other CMOS sensors. **Other features are:** 10 bit ADC, 8 Mbyte memory, digital I/O choice: 1/1 opto-isolated or 2/2 TTL compliant digital, high dynamic range mode (110 dB), AOI with horizontal and vertical step width of 2 pixels. The size without lens is just 35 x 33 x 25 mm (w x h x d), and the weight without lens is only 10 g. The camera can be operated in an ambient temperature range of 5...55°C.

**There are several assembly variants offered:** Mini-B USB connector and digital I/O pin header, USB via header without Mini-B USB connector, female board connector instead of pin header (for direct board-to-board connection). There are three different S-mount (M12) depths offered as well as C(S)-mount compatibility using mvBlueCOUGAR-X flange, so that a very wide range of lenses can be utilised.



## The SATIR thermal camera brings a new dimension to predictive maintenance imaging

The **SatIR E8-GN**, is the premium version of the company's range of entry level thermal imaging cameras for predictive maintenance imaging. It has the most powerful functions, which include 9 spots analysis, 5 areas analysis, line profile analysis, Bluetooth voice annotation, environmental measurement correction and "duo vision" combining the thermal image with a visible (colour) image. Furthermore, in addition to thermal *images*, the E8 series can also take thermal *video* with the USB REAL TIME software. The thermal video can be transferred to the PC in real time for analysis and playback. Many of these functions are only available in high end products in the infrared camera market. The lightweight compact camera lies easily in the hand with a simple to use on screen menu. The option of interchangeable lenses gives real flexibility. All images are stored on a removable SD card.



## The new Sentech GigE Camera series offers you a great of choice of capabilities

Sentech colour and monochrome digital GigE camera series are available in two designs: Standard Models and Power Plus Models (with User FPGA). This series features VGA, XGA, SXGA, UXGA and QSXGA resolution CCD sensors, with corresponding frame rates from 90 to 15 fps. Communication is via Ethernet connector (vision) and 12-pin Hirose (I/O & power). All models are GigE Vision and GenICam compliant and come complete with Sentech Software and SDK. The "Standard" models are aimed at general applications and feature 1 opto-isolated input and 2 LVTTTL outputs. The "Power Plus" models are designed for complex vision tasks and include a user programmable FPGA (Xilinx or Altera), 32MB user memory and 8 Opto-isolated configurable I/O's. They are all PoE (Power over Ethernet) enabled.



## Infrared temperature monitoring design solved quickly with new Evaluation kit for Dexter Sensor module.



The Dexter Temperature Sensor Module (TSM), (p/n: MD-0003) consists of the industry standard Dexter ST-60 with a special embedded signal conditioning ASIC inside the TO-5 can. Due to the low noise amplifier, 17-bit high resolution ADC and powerful DSP of the TSM very accurate non-contact temperature measurements can be achieved. Factory Calibrated object and ambient temperatures is available in RAM of TSM accessible by the industry standard serial SMBus protocol or via 10-bit PWM (Pulse Width Modulated) output of the device.

The new evaluation kit, (p/n: MD-0004) is designed to support the infrared temperature sensor modules (TSM). The communication between PC and the evaluation board is accomplished via a USB2 interface.

The main purpose of the evaluation kit is to allow customers easily to configure the TSM for virtually any application. Customers can quickly evaluate the TSM for temperature ranges, optics, etc. to find the best configuration to meet their application requirements without the need to design any additional hardware. Once the best configuration is established, customers can easily configure the TSM for their own use.

## New Lens suppliers

New camera lens suppliers have recently been added to our product portfolio. We now supply camera lenses from Azure, Lensation, Schneider and Spacecom. Take a look at the new lens pages on our website. There is a lot more information to help you as well as links to the manufacturers' websites so you have all the information at your fingertips.

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