

Newsletter January 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**

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.

Laser pattern generators for image processing



Coherent's world-renowned Lasiris™ SNF laser transforms the familiar laser dot into a wide range of structured light patterns - including single and multiple laser lines with uniformity down to $\pm 15\%$. Straight laser lines are projected by allowing one dimension of light to fan out while maintaining tight control over the other, resulting in a uniform sheet-of-light.

What distinguishes the SNF laser from conventional lasers (with cylindrical optics) is the evenness of the illumination pattern. Lasiris™ lasers incorporate a patented optical laser line generator that eliminates Gaussian distribution of the light, resulting in the most uniform laser lines on the market. The design provides superior quality light patterns while avoiding the intricacies of installation alignment and detector calibration.

Kowa machine vision and CCTV lenses now available from Alrad Imaging

Alrad Imaging is pleased to announce they can now offer the **Kowa** range of machine vision and CCTV lenses. **Kowa** is well known as a quality manufacturer developing State-of-the-Art Optics for more than 40 years.



Machine Vision lenses

Over the past 4 years, Kowa has gradually expanded its portfolio of Megapixel C-mount lenses, 3CCD lenses, telecentric lenses, and large format lenses. The latest addition is the 10MP range for the latest generation of high resolution cameras. All machine vision lenses are designed and manufactured in Japan.

CCTV lenses

Kowa's product portfolio covers Zoom lenses with up to 1000mm focal length, standard varifocal lenses and Day & Night HD-Multi-Megapixel lenses designed for use with cameras with more than 3 Megapixel resolution.



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 very 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 sensors.

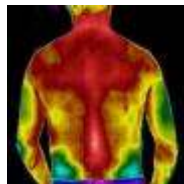
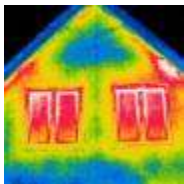
Other features are: 10 bit ADC, 8 Mbyte memory, digital I/O choice: 1/1 opto-isolated or 2/2 TTL compliant digital, high dynamic range mode (110 dB), AOI with horizontal and vertical step width of 2 pixels. The size without lens is just 35 x 33 x 25 mm (w x h x l), and the weight without lens is only 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.



Opto Engineering – Telecentric and specialist lens supplier

Opto Engineering® designs and manufactures lenses and complete optical systems for imaging, metrology, sensors, projection and lasers.

Products include: **UV Bi-Telecentric lenses - Pericentric lenses - Catadioptric lenses - Hole inspection lenses - Micro Polyview optics - F-Theta lenses - Telecentric kits - Zero distortion macro lenses.**



Alrad Instruments Limited is a private British company that was established in 1970. *Member of UKIVA and PPMA* the Company has two trading divisions providing a variety of instruments and components for industrial, scientific and research applications. You can now find us on Facebook or follow us on Twitter. See our website home page for links.

ALRAD INSTRUMENTS LTD, Alder House, Turnpike Road Ind. Estate, Newbury, Berkshire, UK, RG14 2NS
Tel.: +44(0)1635 30345 Fax: +44(0)1635 32630 Email: sales@alrad.co.uk Web: www.alrad.co.uk
