

Newsletter April 2010

In this issue we feature the products that Alrad will be displaying at the forthcoming **VTX - Vision Technology Exhibition**. All products are available through **ALRAD IMAGING** or **ALRAD ELECTRONICS**. If you would like more information on any of the items featured in this newsletter either telephone **01635 30345** or email our product specialists at **sales@alrad.co.uk**



Visit Alrad at the VTX - Vision Technology Exhibition 27 -28th April 2010, on Stand 1540

Vision Technology Exhibition is part of the Advanced Manufacturing Event to be held at the NEC on 27-28th April 2010. Alrad will be exhibiting on stand 1540. Please come and visit our stand and discuss your requirements with one of our technical sales staff. We will be running a number of demonstrations and also have other products on display which we are sure you will find interesting so please call by our stand. We look forward to seeing you.

If you cannot make VTX then we will also be present at the following exhibitions soon: -

- **Total Processing & Packaging 2010** NEC Birmingham 25-27th May 2010 -Stand 5940F In conjunction with Product Technology Partners
- **Microscience 2010** - ExCel London- 28th June to 1st July 2010 - Stand J12

New Mv BlueCOUGAR-X intelligent cameras with GigE Vision

The mvBlueCOUGAR-X is the latest GigE output camera from German vision specialist Matrix Vision. This intelligent machine vision camera is full of extra hardware-based smart features and design highlights. For example, the very compact and high quality housing is optimized for industrial use and features lockable connectors. The mvBlueCOUGAR-X series will cover various applications with its wide range of highly sensitive CCD-/CMOS- colour and gray scale sensors. C-Mount, CS-Mount as well as S-Mount lenses are supported. The mvBlueCOUGAR-X is compliant to Gen<i>i</i>Cam™ and GigE Vision®.



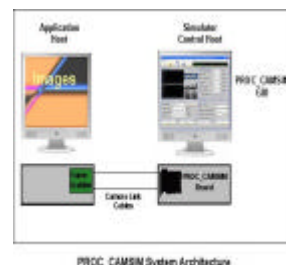
The cost effective DiViINA-LM1 GigE Vision line scan camera



The e2v DiViINA- LM1 GigE Vision line scan camera which incorporates the proven quality of 1024, 2048 and 4096 pixel line scan sensors and is designed specifically to deliver the optimum solution to machine vision system integrators looking for a cost effective and reliable line scan camera, whilst seeking to maintain high end CCD performance. The new Gigabit Ethernet interface gives further cost reduction opportunities at the machine vision system level, as well as multi-cast capabilities and enhanced ease of use.

High performance camera simulator helps development of imaging applications

The Gidel PROC_CamSim™ is a high-performance camera simulator that generates video and test patterns to a frame grabber supporting all the Camera Link™ specification configurations. The PROC_CamSim can simulate a full-range of base/medium/full mode Camera Link cameras, sending up to 64 bits data (8 pixels) at 7-85 MHz pixel clock.



Cyclocam: The efficient high speed camera for automated machine vision applications

The Cyclocam incorporates the very latest in high speed camera technology for automated production line applications. It is the ideal camera for companies wishing to troubleshoot recurring cyclical processes, but this camera can also make traditional high speed recordings. It is self-powered and can be hand operated. Built-in display allows analysis without the need for a download to a PC, although that option is also available.

New compact Digital GigE camera series with an extensive range of features

The new Sentech STC-GE/GEC camera series includes both colour and monochrome cameras. These digital GigE interface cameras are offered in three configurations: standard, standard OEM (custom code from Sentech) and custom OEM (Xilinx or Altera based User FPGA). This series features VGA, XGA, SXGA, UXGA and QSXGA progressive scan sensors, with resolutions from 648 x 494 to 2448 x 2050 and scan rates between 15 and 90fps depending on the resolution.



Alrad announces and extension to the EPIX range of Notebook frame grabbers

EPIX Inc - the US frame grabber manufacturer- has added another lower cost model to its popular range of Camera Link frame grabbers for Notebook computers. The PIXCI® ECB1-34 base Camera Link frame grabber plugs into an ExpressCard/34 or ExpressCard/54 slot in a notebook computer. With 200 MB per second sustained data transfer rates, and burst transfers up to 250 MB per second, almost all base configuration Camera Link cameras are supported.

Thermopile Development Tool - Miniature Amplifier PCB

Available in three amplifier gains: 300, 500 and 1,000, this PCB includes a LM20 temperature sensor and 1.25V voltage reference. Although sized for single channel TO-5 packages, this amplifier is electrically compatible with all Dexter Research Center detectors, providing convenient buffering and pre-amplification of thermopile signal. The amplifier circuit board is impressively small (0.35" x 0.85") and is designed around the AD8628 amplifier with ultra low offset (<1μV), low drift (<0.005μV/°C), and low bias current (100pA). The Mini Amp will operate on a 2.7V to 5.5V single supply, is chopper stabilized and has greatly reduced digital switching noise (0.5μVp-p from 0Hz to 10Hz, input referred).

Dual resolution contact image sensors

CMOS Sensor has produced two image sensors with selectable resolution for use in CIS modules. The C116 is selectable between 300 and 600 dpi while the C118 is selectable between 200 and 400 dpi. Now you can double your system resolution at the flip of a switch. Need to scan images at 600 dpi but only want 300 dpi for text? How about designing a system for 200 dpi today while being capable of 400 dpi tomorrow? Just think of how this can cut your design and development costs.



High performance CMOS digital line scan sensors from Panavision

Panavision Imaging LLC offer very high performance Image Sensors at a low cost. These sensors combine high sensitivity, high speed, and versatility to address many applications and markets including scientific, automotive, consumer, and others. The sensors can be used in Spectroscopy, Barcode, Touch Screen, OCR, Machine Vision, Measurement and other applications. Panavision Imaging LLC has introduced the **DLIS-2K** and **DLIS-4K** re-configurable line scan CMOS image sensors for a wide variety of applications. The sensors feature oversampling for enhanced sensitivity and High Dynamic Range (HDR) imaging.

ELIS1024 sensor is an excellent choice for your imaging needs, whether modifying an existing product, or for a new product. It has many of the same high performance features as our LIS-1024 but adds a true full frame electronic snap shot mode as well as selectable resolution output which allows the user to select binned resolutions of 128, 256, 512, or 1024 pixels. The line rate is proportional to the resolution selected, for example in 128 mode the line rate is 8x faster than at 1024 mode.

Image Sensor Sockets and Optoelectronic sockets from Andon

Image Sensor Sockets provide higher reliability because the sockets can be soldered to the motherboard in large quantities. Later, as required, the sensors can be plugged-in or unplugged and upgraded easily.

Optoelectronic Sockets Customers will appreciate knowing that production line PCB assembly problems with Optoelectronic device lead soldering and thermal damage is eliminated. No worry about "lead free" high temperature soldering. Reduced handling means reduced ESD problems, no cleaning solution on the device window, no humidity or extreme temperature damage.



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