

Newsletter May 2010

In this issue we feature the products that Alrad will be displaying at the forthcoming

Total 2010 – Processing and Packaging 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 Total 2010 – Processing and Packaging Exhibition Hall 5, NEC Birmingham 25 -27th May 2010, on Stand 5940F

Total 2010 UK's premier Processing and Packaging expo takes place at the NEC Birmingham between 25-27th May 2010. Alrad will be exhibiting on stand 5940F in conjunction with Product Technology Partners. 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 TOTAL 2010 then we will also be present at the following exhibitions soon:-

- **Microscience 2010** - ExCel London- 28th June to 1st July 2010 - Stand J12
- **Composites Engineering Show** – NEC Birmingham – 29-30th September.

Introducing 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 needing to inspect recurring cyclical processes, but this camera can also make traditional high speed recordings.

It is a fully portable, battery powered unit with built in LCD display – so movement can be viewed directly, or sequences can be later downloaded to a PC for detailed analysis.

Cyclocam captures up to 250fps at full VGA resolution and at higher frame rates up to 10,000fps, at reduced resolutions (ROI). Sequence length depends on the amount of RAM fitted. An additional advantage offered is that parts of the cycle that are not interesting can be skipped, so that only the relevant portions of sequence will be displayed.

The Cyclocam requires no installation, and may be used as a "point and shoot camera". It can be used on multiple production lines in the factory and can be synchronised with the line without the need for a connecting cable.



Non contact infrared temperature sensing solution



The MD Series Temperature Sensor Module infrared thermometer is the low cost solution for non-contact temperature measurements. The sensor is integrated with signal conditioning that reliably produces a calibrated temperature output in a plug and play package, with options. Programmable outputs and flexible supplies yield a turnkey solution for medical, consumer, commercial and industrial applications. Available to support the MD Series Temperature Sensor module is an evaluation Kit which allows developers to configure the TSM for virtually any application quickly. Customers can quickly evaluate the TSM for temperature ranges, optics,

etc. to find the best configuration to meet their application needs without the need to design any additional hardware. Once the best configuration is established, customers can easily configure the TSM for their own use. The evaluation kit consists of FS USB evaluation board (EVB), pre-programmed with USB a boot loader and demonstration firmware, a standard USB cable for use in communicating with the board, an MD-0003 TSM detector, CD-ROM, containing the PC USB HID driver and evaluation software and a quick start guide.

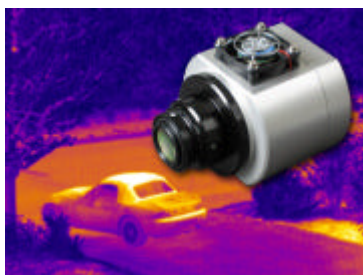
Infrared cameras for industrial applications.

We can offer Infrared cameras based on InGaAs and Microbolometer detectors manufactured by VDS Vosskuhler.

The **NIR-300** Infra Red camera uses a 320 x 256 pixel InGaAs sensor and is available with Camera Link or Gigabit Ethernet interface. The NIR-300 has a spectral response in the NIR area (0,9 - 1,7 µm). The camera has a 14 bit readout at 50 images/sec. The camera is suitable for a wide range of applications including Near-infrared imaging, Thermal imaging of hot objects (in a range of 150°C to 800°C), Imaging spectroscopy, Laser beam profiling, Sorting, Semiconductor inspection, Water or moisture detection, Medical science and biology and Vision enhancement.



A high resolution version of the NIR-300 is also available under model number **NIR-600/610P**. These cameras have an InGaAs sensor with a resolution of 640 x 512 pixels. The NIR-600P is suitable for use with C mount lenses while the NIR-610P can be used with F mount lenses. The camera has peltier cooling allowing longer exposure times.



The **IRC-300** camera is sensitive in the 8-14 micron region of the IR spectrum and can be considered for applications in the automation, quality- and process control as well as for scientific research and development.

The camera incorporates an uncooled microbolometer detector, enabling it to resolve temperature distinctions smaller than 80 mK in an area from 20 - 200 °C @ F/1.0. At a frame rate of 40 Hz the camera delivers excellent, noise-free and high-resolution images with **320 x 240 pixels**.

The IRC-300 camera is offered in two **OEM-Versions**:-

As "**IRC-300CL / IRC-300GE**" and "**IRC-320CL / IRC-320GE**" the IRC-300 camera becomes equipped with the pre-processing module CPP-1000 or the GIP-1000. Within the modules all necessary correction functions are executed in real time. The IRC-300CL has a Camera Link output and the IRC-300GE is equipped with a Gigabit Ethernet output.

The IRC-320 series is equipped with an additional mechanical shutter for automatic background correction.

New GigE Vision cameras

New easy, accurate and fast line scan cameras with GigE vision output

We are pleased to announce the introduction of the e2v EM1 linescan camera for industrial machine vision applications.

EM1 is the perfect candidate for industrial vision applications requiring both the ease of use, the benefits of economical cost offered by the Gigabit Ethernet interface and the highest electro optical and line rate performances. Based on the latest generation of e2v sensors, EM1 features unmatched electro optical performances.

Vision applications for the EM1 include web inspection, process control, print inspection, sorting, surface inspection, OCR and barcode reading.



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.

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