
Newsletter June/July 2010

In this issue we feature the products that Alrad will be displaying at the forthcoming
Microscience Exhibition to be held at the Excel Centre, London

All products are available through **ALRAD IMAGING** which is a trading division 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**

Visit Alrad at Microscience 2010 –EXCEL CENTRE, LONDON – 28th June -1st July 2010, on Stand J12

Microscience 2010 is UK's premier Microscopy conference and exhibition which takes place at the Excel Centre, London between 28th June- July 1st 2010. Alrad will be exhibiting on stand J12. 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 Microscience 2010 then we will also be present at the following exhibition soon:-

- **Photonex 2010** – International Centre – Telford – 3-4th November
-

Introducing the compact "One4all" camera for industrial applications



Alrad Imaging is pleased to offer a new series of ultra compact CMOS cameras from The Imaging Source, an international manufacturer of cameras for industrial image processing. Using the software supplied by the manufacturer, you can configure the cameras precisely to the requirements of your application, by setting the resolution and frame rate, and all at a very competitive price. All standard resolutions from 96x96, via VGA, XGA, SXGA, UXGA, and Full HD to 5 megapixels and frame rates from 200fps to 6fps at 5MP can be configured. Additionally, it is possible to set the sensitivity from 1.4 V/lux-sec to 14 V/lux-sec, without changing the exposure time. Both monochrome and colour sensors are available, as well as board versions of the cameras for OEMs.



New Panasonic True 1080p HD 3 chip Colour Remote Head Camera System

The best remote head 3 chip colour camera just got better. The new Panasonic GP –US932A offers true 16:9 1080p high definition video performance. This remote head HD Camera System is ideal for microscopy applications where the best possible quality colour images are required. The camera head is 6mm smaller than previous models and features improved sensitivity, HDMI output and 10 and 20 meter cables to connect the camera head to the control unit are available. This camera offers high accuracy in life-like colour reproduction, image details and image processing options like seamless zoom, freeze, dynamic range expansion and low frequency booster.

It can be set for 1080p, 1080i or 720p video qualities and uses high-sensitivity progressive scan sensors running at 60 frames per second.



Ultra High Resolution, cooled 11 Megapixel CCD-Camera with 12-bit Digital-Output

Cooled cameras from VDS VOSSKUHLE offer huge possibilities for Microscopy imaging. The popular CCD11000 high resolution camera with an 11 Megapixel sensor can now be purchased as a cooled version. Two options are offered. The camera can be fan cooled or water cooled. Fan cooling allows exposure times up to 60 seconds while water cooling can double this exposure time. The camera has a 12 bit output and is available with monochrome or colour sensor with RGB Bayer mosaic filter. The camera uses a sensor with 4024 x 2680 square pixels. It includes asynchronous shutter up to 1/8000 second.



New LED cold light source gives users the best of both worlds

The new Photonic F1 light source has set a further milestone in the development of modern cold light sources. This light source combines LED illumination with the wide range of illumination possibilities normally only offered by a fibre-optic lamp. By use of the photonic lightguides in combination with the patented focusing attachments, which provide a substantial increase in brightness, this light source achieves the light intensity of standard fibre-optic halogen lighting systems. The light source is designed for the use with any Photonic fibre optic lightguide, thus offering the huge range of lighting options normally provided by halogen light sources.



EMCCD cameras available from Raptor Photonics

Raptor Photonics offers the new Merlin EMCCD Camera with a USB2, CameraLink or GigE output. The ME247-CL (monochrome) and ME246-CL (colour) cameras feature a compact housing, designed for demanding industrial or scientific applications. In order to support GigE output, Raptor offers a standard adaptor box from Pleora, which converts CameraLink data to GigE data. Pleora's iPORT PT1000-CL IP Engine streams video and imaging data in real time over standard GigE connections between Base-configuration Camera Link cameras and PCs. RaptorVision Capture and SDK allows for easy control of the camera and acquisition of images. The camera is ideal for applications requiring low light level scientific imaging. EMCCD is a quantitative digital camera technology that is capable of detecting single photon events whilst maintaining high Quantum Efficiency, achievable by way of a unique electron multiplying structure built into the sensor. Unlike a conventional CCD, an EMCCD is not limited by the readout noise of the output amplifier, even when operated at high readout speeds.



Other products on display at Microscience 2010 will be Video Microprobe, video zoom adaptors, CCD Cameras, telecentric and zoom lenses as well as a variety of lighting products for microscopy.

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