



## Alrad Imaging Newsletter July/August 2007

### A regular look at what's new in the world of imaging and machine vision components

This month we feature:-

- 16 Megapixel industrial CCD camera
- Technical news from Matrix Vision
- New FOculus T series cameras with CMOS sensors
- NIR- 300 New near Infrared camera
- Fast 2D/3D laser profile sensor

**Don't miss** Machine Vision in European Manufacturing  
13-14 September 2007  
St John's College, Cambridge, UK.  
Click [here](#) for booking form

### 16 Megapixel industrial CCD camera

Ultra High Resolution 16 Megapixel CCD-Camera with 12-bit Digital-Output



The CCD16000 has a staggering 4896 x 3264 pixels giving ultra high resolution imaging. The sensor size is 36mm x 24mm. Frame rate at full resolution is 2 frames per second but also can be partially scanned to give 4 frames per second at 4896 x 1632 pixels. The camera uses a progressive scan interline transfer sensor which offers very short exposure times down to 1/7000 sec. Effective dynamic range is  $\geq 1:1000$  ( $\geq 60$  dB). The camera has a Digital RS-644 output with 12-bit (LVDS). Monochrome or colour sensors with RGB Bayer mosaic filter are available.

[More info](#)

### "TECH" news from Matrix Vision



The latest version of technical news is available from Matrix Vision

This edition of the MATRIX VISION TechNews contains information about new products and hints about interesting features of their products. Topics in this edition are: -

1. CMOS sensor from Micron for mvBlueLYNX, mvBlueFOX and mvBlueCOUGAR
  2. mvVirtualDevice - application development with mvIMPACT without MATRIX VISION hardware
  3. MATRIX VISION publishes signed 64 bit driver for Windows
  4. Lens calculator online available
- A full copy of the newsletter can be downloaded [here](#).

## New FOculus T series cameras with CMOS sensors

The very popular FOculus series of cameras has been extended even further to include the T "Tiny" series with CMOS sensors.



FOculus "T" series has been available with CCD Sensors for some time.

The new cameras run with latest CMOS technology and come in monochrome and colour, integrated with resolutions from WVGA to 3 Megapixel. [More Info](#)

## NIR-300 NEW near Infrared camera



We are pleased to announce the introduction of the NIR-300 near Infra Red camera. The camera is manufactured by VDS Vosskuhler and uses a 320 x 256 pixel Inga AS 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  $\mu\text{m}$ ). The camera has a 14 bit read out at 50 images/sec.

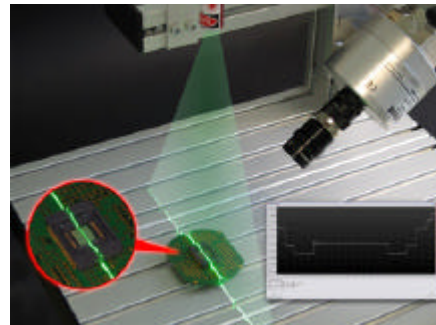
The camera is suitable for a wide range of applications including Near-infrared imaging,

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, Vision enhancement. [More info](#)

## Fast 2D/3D line profile sensor

The ZPS-1000 2D/3D line profile sensor is manufactured by vision specialist VDS Vosskuhler. The ZPS1000 is capable of high scan rates 500Hz to 2 kHz at 500 pixels/line. There is an adjustable Z-measuring range with resolution +/- 0.05% and measuring accuracy of +/- 0.2%. Data output is directly in mm. The ZPS1000 is ideal for a wide range of vision applications.

[More info](#)



For more information on any of these products please click on the appropriate "more info" link or talk to our sales staff on **01635 30345** or if you prefer email [sales@alrad.co.uk](mailto:sales@alrad.co.uk) with your requirements or go to our web site <http://www.alrad.co.uk>

Technology advice and information is available on our [FAQs/Applications](#) pages go to our web site <http://www.alrad.co.uk>

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