

Newsletter March 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**

The new Sentech GigE Camera series offers you a great of choice of capabilities

Sentech colour and monochrome digital GigE camera series are available in two designs: Standard Models and Power Plus Models (with User FPGA). This series features VGA, XGA, SXGA, UXGA and QSXGA resolution CCD sensors, with corresponding framerates from 90 to 15 fps. Communication is via Ethernet connector (vision) and 12-pin Hirose (I/O & power). All models are GigE Vision and GenICam compliant and come complete with Sentech Software and SDK.



The "Standard" models are aimed at general applications and feature 1 opto-isolated input and 2 LVTTTL outputs.

The "Power Plus" models are designed for complex vision tasks and include a user programmable FPGA (Xilinx or Altera), 32MB user memory and 8 Opto-isolated configurable I/O's. They are all PoE (Power over Ethernet) enabled.

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.

Lensation - Smart lenses for smart solutions

Lensation supplies a range of lenses to fit most vision applications. Designs include machine vision, low distortion, Megapixel, Telecentric, Marco Zoom and specialized optics models, featuring C Mount, CS Mount, and S Mount (M12). Full details of their range of lenses can be found on our website.



Telecentric lens with long WD (170mm or 237mm)



- Supports up to 12Mpixel CCD sensors
- No perspective error over the whole F.O.V.
- Perfect for SMT, PCB, LED inspection applications
- Manual iris control for adjusting D.O.F.



Sentech new STC-HD133DV – High Definition output camera for direct monitor viewing

The STC-HD133DV is our second HD digital output cased camera, ideal for applications requiring direct-connect viewing on a High Definition Monitor. This CCD based camera outputs true HD 720p, 16x9 images at 60fps. It also features the capability to program 28 individual DSP profiles and has a programmable on-camera push-button for manual control. The STC-HD133DV boasts a compact size of 40(W) x 40(H) x 45.8(D) mm.



DCM versatile PRC0606 High intensity LED Projector

Depending on the mounting orientation this LED projector can be used as a darkfield illuminator ideal for looking for imperfections in surfaces such as cracks or detecting edges, or as a downlight illuminator for measurement applications. Choice of emission angle allows control of Working Distance. Polarizer option is available.



- High intensity LEDs: 4x3W.
- White, Red, Green or Blue.
- Dimmable.
- Three emission angles (10°, 30°, 45°).
- 24VDC, 450mA.
- Thermal protection.
- MTBF until 80,000 hours
- Operating Temperature 0-40°C
- Compact 75 x 66 x 71.5mm.



Azure Photonics offer a wide range of Machine Vision Lenses

Azure have introduced cost-effective lenses for Machine Vision, including 1.3 Megapixel and 5 Megapixel manual iris models, high-resolution Telecentric lenses (all C-mount), and also M12 (S-mount) board camera lenses with 1, 2 and 5 Megapixel resolution and IR correction.



Pearson Electronics new Model 7655 Clamp on Current Monitor

Pearson Electronics is pleased to introduce a new line of Wide-Band Clamp-on Current Monitors. The new design features a 4 inch or 6 inch aperture in a demountable configuration for easy use on large conductors. The Pearson's wide-band frequency response and 1% accuracy is featured in all of the models.

The model 7655 has a sensitivity of 0.1 V/A, a 3dB bandwidth from 10 Hz to 4 MHz, and a 175 Ampere rms current rating. Accuracy of 1%, or better, is obtainable across the mid-band. Pulse currents up to 5,000 Amperes and rise times down to 100 nanoseconds can be viewed faithfully. Other new large aperture clamp-on models feature a range of transfer impedance from 0.01 V/A to 1.0 V/A. Electrical specifications range from rise times as short as 25 nanoseconds, or droop as low as 0.001% per microsecond. All of the new large aperture clamp-ons are featured in our Clamp-on Current Monitor section along with existing custom and stock designs.



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