



## **PRESS RELEASE – for immediate release**

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### **Chromasens Introduces World's First 2.5µm Stereo Line Scan Color Camera**

Designed for semiconductor and electronics inspection

*Konstanz, 01 February 2018.* In a strategic move aimed at broadening its leadership position in the 3D machine vision market, Chromasens has expanded its highly successful 3DPIXA family with the introduction of the world's first 3D stereo line-scan color camera to feature an optical resolution of 2.5 µm/pixel, an innovation that enables the capture of extremely detail-rich signals that up to now could only be achieved through complex multi-camera solutions.

A breakthrough in mechanical design, the Chromasens 3DPIXA Dual HR 2 µm camera sets a new standard in the drive for ever-increasing higher resolution and speed. The camera performs high-speed inline 3D measurements and captures defects on complex surfaces in the micrometer range to automatically reject the part before it enters downstream process chains.

Semiconductor failure analysis, inline height measurements, and the inspection of miniature electronics benefit from the camera's 16mm FOV and flexible line rates up to 21,200 lines per second. Adding to its versatility is the ability to combine both 3D and 2D color inspection simultaneously to open up new and unique applications in science, medical and industrial sectors.

The Chromasens 3DPIXA Dual HR 2 µm camera leverages a trilinear CCD line sensor (RGB) for performance characterized by minimal noise levels, high image contrast and low power consumption. Due to its unique opto-mechanical design and the special trilinear line sensor with precise internal synchronization, the camera consistently delivers excellent image quality.

Because controlled, bright illumination is critical to line scan camera accuracy Chromasens strongly recommends the use of its CORONA II LED line scan light system available in top light/dark field, back light/bright field, and tube light models.



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CORONA II systems produce as high as 3,500,000 lux illumination for unprecedented brightness.

The new 3DPIXA Dual HR 2  $\mu\text{m}$  camera features same Camera Link interface that is in all Chromasens 3DPIXA models. The robust camera housing provides for stable mounting and is appropriate for controlled industrial environments like those found in semiconductor, electronics assembly and similar industries. To assist in set-up and operation, the 3DPIXA dual HR 2 $\mu\text{m}$  camera includes free 3D software - the Chromasens viewer and CS-3D-API - which provide height maps and 3D point clouds for rapid part visualization with the viewer.

Learn more at [www.chromasens.com](http://www.chromasens.com).

*Photo 1: New Chromasens 3DPIXA Dual HR 2  $\mu\text{m}$ ; picture source: Chromasens GmbH*

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### **About Chromasens GmbH:**

Founded in 2004, Chromasens GmbH designs, develops and produces innovative image capturing and processing systems to satisfy the most stringent of demands. Chromasens' expertise lies in the development of both components and systems. The optical, electronic and mechanical elements of high-performance cameras and illumination systems are perfectly adapted to suit the specific tasks faced by each individual customer. The company is based in Constance, Germany, and is ISO 9001 certified. Chromasens offers professional advice and support throughout each phase of the project cycle to its direct and project customers who require customized, individual image capturing solutions. The company's standardized image processing components include color line scan cameras, 3D stereo cameras, multichannel cameras, line lights and software packages which are distributed worldwide via certified value-added distributors.

In May 2017 Chromasens became a member of Lakesight Technologies, a group of machine vision companies owned by Ambienta that includes Tattile and Mikrotron. Ambienta is a leading European private equity fund operating out of Milan, Düsseldorf and London, focused on industrial growth investing in companies driven by environmental trends.



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