

Press Release No.: 1,598

Frictionless AOI inline system in the narrowest of spaces

New inspection system for placement inspection of THT components

Completely frictionless and maintenance-free with minimized footprint and unsurpassed inspection speed: GOPEL electronic presents MultiCam Line, GOPEL's newest inline AOI system. Based on the unique multi-camera image acquisition module MultiEyeS, it provides placement inspection of THT components with a test speed of up to 300 cm²/s.

The camera module consists of multiple cameras arranged in a matrix-like configuration with a combined resolution of 120 megapixels. The images, captured in parallel, are merged together with an application-optimized stitching algorithm. Thereby, no x/y axis movement of the camera head is necessary. This results in a wear free and maintenance free system. Concomitantly, the space saving MultiCam Line can be integrated easily into the manufacturing process. A typical application is the construction of the system on an already existing conveyor. With a footprint of only 660 mm x 760 mm, an inspection area of 490 mm x 390 mm is covered.

On the software side, the MultiCam Line can be operated with the system software PILOT AOI. Highly powerful functions for component recognition, optical character recognition (OCR) and color verification are part of PILOT AOI. For automatic generation of test programs, a flexible import module for numerous pick and place data, Gerber data and CAD formats is available.

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Image 1: AOI system for use in the narrowest of spaces



Image 2: Integrated multi-camera module MultiEyeS

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About GOPEL electronic:

GOPEL electronic is a technologically leading vendor of professional Automated Optical Inspection systems (AOI) and Automated X-ray Inspection Systems (AXI). A network of branch offices in the UK, China, India and the USA, international distributors and service partners ensures the global availability of the products as well as the on-site support to several hundred system installations. Founded in 1991 and headquartered in Jena, Germany, GOPEL electronic has currently more than 230 employees and generated revenue of 30 million Euros in 2015. GOPEL electronic has continuously been ISO9001 certified since 1996 and has been honoured with TOP-JOB and TOP-100 awards for being one of the best medium-sized companies in Germany. GOPEL electronics' industry award winning products are relied on by the leading companies in telecommunication, automotive, space and avionics, industrial controls, medical technology, and other industries. Further information about the company and its products can be found on the internet at www.goepel.com.

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