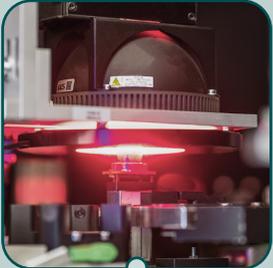
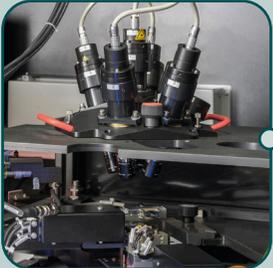


AUTOMATION

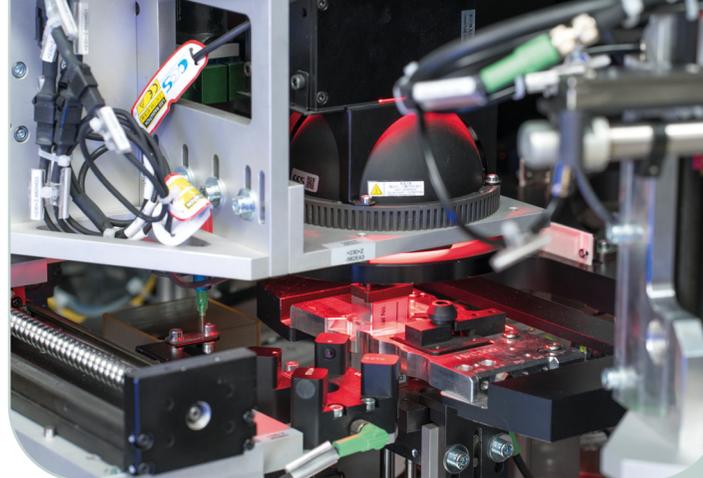
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INTELLIGENT IMAGE PROCESSING FOR MAXIMUM REQUIREMENTS



With our leanbox as a powerful, modular automation platform and the in-depth vision expertise of Smartvision, we offer you a seamlessly integrated complete system for demanding image processing tasks - from a single source. The combination guarantees you highly efficient and reliable image processing as well as perfect customisation to your specific requirements. Whether in the automotive, plastics or electronics industry, we offer you customised solutions for all quality and process controls.

In particularly demanding production environments, such as small series production with a high proportion of manual labour, we guarantee seamless quality assurance. Using our technologies, you receive reliable identification and precise control of components - regardless of the complexity or variability of your production processes. In this way, you increase not only your process reliability, but also efficiency and reduce rejects and rework.

Our image processing solutions are powerful, flexible and scalable - and therefore able to precisely fulfil all requirements from robot handling to surface inspection. With the use of modern deep learning technologies and proven processes such as BestFit (optimum tolerance position of the pins) and TruePosition (fixed measurement according to drawing specifications), we also solve highly complex inspection tasks efficiently and economically. This guarantees you maximum measurement accuracy and reliable fault detection, even under the most difficult conditions.

Increase your efficiency, safety and product quality with our customised vision solutions.

TYPICAL APPLICATIONS:

Measurement and geometry inspection:

Precise measurements of components to ensure dimensional and shape accuracy.

Assembly, presence and completeness checks

Tumbling circle inspection:

(2D and 3D, incl. BestFit and TruePosition)

Surface inspection:

With deep learning for defect detection in difficult structures and reflections

Label inspection:

Position detection, barcode inspection and OCR/OCV for plain text and character recognition

InSpecTor UI

In-house user interface for Halcon-based vision system. We integrate a PC-based image processing solution (Beckhoff Compact IPC to Advantec computer, GigE cameras, lighting and selected optics) with Deep Learning supported technologies.

Cognex In-Sight®

Efficient spreadsheet-based program creation for flexible applications.



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