

Press Release:

Kontron and Robotron Simplify Computer Vision: New Product AI-Workstation

Kontron and Robotron combine two of their innovative solution approaches for the uncomplicated and fast application of computer vision. The jointly developed all-in-one product AI-Workstation provides a valuable contribution to the democratization of artificial intelligence.

Dresden/Ismaning, April 2022 – The new **AI-Workstation** is a multi-purpose combination of hardware and software that enables training, execution and inference of algorithms for a wide range of computer vision models and frameworks. The standardized approach covers almost all deployment scenarios and enables manufacturing engineers without coding experience to solve their inspection problems in real time using computer vision.

Artificial intelligence (AI) and in particular the subfield of machine learning are continuing to be the subject of everyone's attention. The enormous potential of this technology for optimizing processes, products and costs as well as the ability to use data as a basis for strategic decisions is undisputed. Especially in the area of visual quality control, Machine Vision or Computer Vision - i.e. computer-based vision and image processing - offers numerous use cases and optimization potential in the industrial environment. Nevertheless, many companies still see too many question marks to even start their first AI project:

What does the introduction of AI systems cost and what are the benefits?

Is there sufficient expertise in the company for an AI project?

Is the existing IT set up appropriately? Where does the required data come from?

The **AI-Workstation** from Kontron and Robotron removes these initial hindrances and creates an uncomplicated entry and test option for future complex AI applications. By creating their own first proof-of-concept, companies gain valuable insights into the overall benefits of an AI solution through an iterative learning processes. Also, this is possible without coding knowledge, additional cloud environments or complicated installation of software.

The **AI-Workstation** is optimized for applications that require high performance in terms of processing power and graphics, while simultaneously requiring maximum reliability, long-term availability and flexibility. With an overarching system for training, deployment and inference, Robotron is taking a big step towards the practical utilization of artificial intelligence. Above all, the chosen no-code approach contributes to easy application. Data scientists as well as production engineers and even machine operators, who are often most familiar with the specific details, can implement new scenarios. Thus, the focus is not on the use of AI as an end in itself, but on the possibility for quality or production engineers to solve their inspection problems directly.

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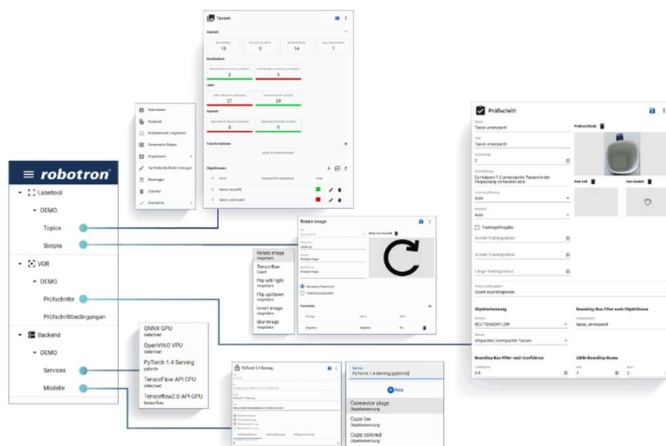
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Ulf Heinemann, CEO of Robotron Datenbank-Software GmbH, is convinced that "the democratization of AI as a trend means, at least in part, that the bottleneck created by the shortage of skilled workers in the data science environment will be eliminated".

The common objective of both companies was to create a reliable industrial solution for almost all scenarios. The AI workstation hardware portfolio thus also eliminates the obstacle of finding suitable hardware for an AI project. The KWS 3000-CML from Kontron includes :

- powerful processors with up to ten cores (Intel® Core™ i7-10700E processor)
- efficient thermal cooling for 24/7 operation at up to 45 degrees Celsius
- a GPU generation with enough processing power and RAM for training AI models (NVIDIA RTX 5000)

When implementing AI scenarios, two levels of hardware need to be considered. Reiner Grübmeyer, Director Product Management Systems at Kontron, has stated that "while the high processing power required in the short term for the training level can be cost-effectively leased in the cloud, the algorithm itself should run as close to the process as possible on site and requires reliable and high-performance edge hardware."



Realtime Computer Vision (RCV) – GUI and functionalities of the central administration tool



Compact midi tower housing of the **AI-Workstation**

About Robotron Datenbank-Software GmbH

Robotron is an established and privately owned software company that develops future-proof IT solutions for the efficient handling of large data sets. The company sees itself as a comprehensive IT service provider and is a partner for digital transformation for its customers within the energy sector, manufacturing industry and public administration. The company history of Robotron Datenbank-Software GmbH spans almost 32 successful years on the market. With its 450 employees, Robotron Datenbank-Software GmbH reached 56.2 million euros worth of sales and services in the fiscal year 2020/21.

You can find more information at: www.robotron.de/en

About Kontron Europe GmbH

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As part of the S&T technology group, Kontron offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

You can find more information at: www.kontron.com