Launch of new MVTec MERLIC version on March 20, 2024

Machine vision made easy: New version of the no-code software MVTec MERLIC available from March

- **Even beginners in the field of machine vision can implement complex machine vision tasks with MVTec MERLIC**
- **Complete machine vision applications can be implemented with MERLIC**
- **New version MERLIC 5.5 includes extended connectivity as well as new features for machine vision**

Munich, February 22, 2024 – MVTec Software GmbH (www.mvtec.com), a leading global manufacturer of machine vision software, is launching version 5.5 of MVTec MERLIC on March 20, 2024. MERLIC is a no-code software that particularly appeals to users who have little or no experience in machine vision. "With the new version, we continue our established path with MERLIC - easy process integration combined with powerful machine vision methods. That's why MERLIC 5.5 again includes an interface that further simplifies the process integration of MERLIC. There will also be exciting new features," reveals Ulf Schulmeyer, Product Manager MERLIC at MVTec. For improved process integration, a new TCP socket plugin has been developed that enables text-based communication with devices that do not support complex protocols. The new technologies include the deep-learning-based method Deep Counting for counting large quantities of objects, as well as a new tool for recognizing colors. Another new feature, "High Dynamic Range (HDR) imaging", makes it possible to address difficult lighting conditions and effectively eliminate overexposed or underexposed areas in images.

Machine vision software for beginners

Machine vision is an important automation technology that can be used in a variety of ways, for example to ensure quality assurance, increase efficiency and reduce the workload of employees. "Companies are looking closely at further automation options. Integrating machine vision into the production can be challenging for companies. To support machine vision beginners in particular, we have developed the no-code machine vision software MERLIC. With MERLIC, it is possible to create complete machine vision applications simply by drag & drop," says Schulmeyer.

New TCP socket plug-in

MERLIC 5.5 extends its connectivity capabilities with the introduction of a new TCP socket plug-in. This plug-in features the ability to use a highly customizable, text-based protocol. Users can now configure specific, simple ASCII messages that contain only the information

relevant to their application. These messages can be easily processed by devices that do not support complex protocols such as OPC UA. The plug-in can be easily configured within MERLIC's RTE (Runtime Environment) Setup, providing a straightforward solution for integrating MERLIC into existing systems.

Deep Counting

The new "Count with Deep Learning" concept tool in MERLIC 5.5 allows users to count many objects efficiently and accurately while also detecting their positions. Unlike other deep-learning-based methods, this feature can be rapidly trained with minimal labeling directly in MERLIC. This streamlines the process and significantly boosts the efficiency of object counting, particularly in scenarios involving deformable materials or bulk goods. Simultaneously, this also reduces the time and cost typically associated with deep learning model training.

New color recognition tool

MERLIC 5.5 introduces a new way to handle colors. After training, the new "Recognize Color" concept tool enables the reliable detection of colors in various conditions. Users can even further refine detection accuracy by setting specific thresholds for acceptable deviations.
Ideal for a range of use cases, such as part verification or selection, verifying proper cable connections, or confirming the installation of the correct resistor, this concept tool helps streamline and enhance quality control processes.

High Dynamic Range (HDR) Imaging

MERLIC 5.5 includes new methods for HDR (High Dynamic Range) imaging. This feature extends the existing "Merge Images" tool, now equipped with HDR functionality, to combine images of varying exposures into a single HDR image. This enhancement ensures that high contrast differences are handled, effectively eliminating overexposed or underexposed areas in images. As a result, even the most challenging lighting conditions can be accurately represented and analyzed. This opens up new possibilities for a variety of applications, including the measurement of reflective surfaces and increasing the dynamic range of an image.

About MVTec Software GmbH
MVTec is a leading manufacturer of standard software for machine vision. MVTec products are used in a wide range of industries, such as semiconductor and electronics manufacturing, battery production, agriculture and food, as well as logistics. They enable applications like surface inspection, optical quality control, robot guidance, identification, measurement, classification, and more. By providing modern technologies such as 3D vision, deep learning, and embedded vision, software by MVTec also enables new automation solutions for the Industrial Internet of Things aka Industry 4.0. With locations in Germany, the USA, France and China, as well as an established network of international distributors, MVTec is represented in more than 35 countries worldwide.
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Press release

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