**Machine vision: MVTec launches MERLIC 5 and adds deep learning to easy-to-use software**

* **User-friendly deep learning features**
* **Greater flexibility, thanks to new licensing model**
* **Release date: October 7, 2021**

**Munich, September 7, 2021** – MVTec Software GmbH ([www.mvtec.com](https://www.mvtec.com/)), a leading international provider of machine vision software, will release MERLIC 5, the new version of its all-in-one machine vision software, on October 7, 2021. The easy-to-use software enables complete machine vision applications to be created quickly and easily without having to write a single line of code. The highlights of the new MERLIC 5 release include modern deep learning features and improved camera handling. Along with the latest release, MVTec also offers a new licensing model for maximum flexibility. It allows customers to choose whatever best meets their requirements from a range of different packages and price categories.

"With MERLIC 5, we offer high-quality yet easy-to-use machine vision software for all conceivable applications and industrial sectors. It allows our customers to conveniently integrate a machine vision package into their process environment and access innovative deep learning technologies," explains Christoph Wagner, Technical Product Manager for MERLIC at MVTec.

**Robust anomaly detection with deep learning**

MERLIC 5 contains new and optimized features that further increase usability, robustness, and the field of possible applications. Among these features is included the improved camera handling using the Image Source Manager (ISM), which completely separates the image acquisition source from the image processing part. As a result, machine vision applications can be easily copied and run between different systems without adjusting the camera settings. The graphical user interface allows the image sources to be comfortably managed and configured.

In addition, the release of the new version means that MVTec's latest deep learning functions are now also available in the MERLIC 5 all-in-one machine vision software. It’s now easier than ever for users to exploit the benefits of this technology directly in their machine vision applications. Among other things, MERLIC 5 includes deep-learning-based anomaly detection, which provides important added value, particularly in applications where few or no “bad images” are available. Just a small number of "good images" is sufficient for training so that all types of defects can then be located reliably and precisely. The training process usually takes only a few seconds, meaning that users can perform many iterations to fine-tune their applications within a short period of time. The second deep learning feature integrated into MERLIC 5 is the "classify image" tool. This tool can be used to assign images to trained classes based on deep learning algorithms. The technology is particularly suitable for classifying defects or objects with highly variable shapes and appearance, as in the case of natural products. The models can be trained using, among other things, the free Deep Learning Tool from MVTec and then imported into MERLIC 5.

The MERLIC 5 launch will be accompanied in its early phase by a campaign to generate curiosity about its deep learning features and also to help users understand them better.

**More flexible use**

Machine vision applications are now being used in a growing number of industries and sectors, resulting in an expansion of the fields of application and of the accompanying demands on the machine vision software. In concrete terms, this means that a wide range of image acquisition sources and technical features are required in practice. MERLIC 5's new package-based licensing model meets these very requirements. The packages are designed in such a way that users can choose the exact range of functions that they actually need for their application. "With our new licensing model, we are increasing MERLIC's flexibility, which in turn expands its possible field of applications," explains Christoph Wagner.

**About MVTec Software GmbH**

MVTec is a leading manufacturer of standard software for machine vision. MVTec products are used in all demanding areas of imaging: semiconductor industry, surface inspection, automatic optical inspection systems, quality control, metrology, as well as medicine and surveillance. 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, and China, as well as an established network of international distributors, MVTec is represented in more than 35 countries worldwide. [www.mvtec.com](http://www.mvtec.com)

**About MVTec MERLIC**

MVTec MERLIC is an all-in-one software product for quickly building machine vision applications without any need for programming. It is based on MVTec's extensive machine vision expertise and combines reliable, fast performance with ease of use. An image-centered user interface and intuitive interaction concepts like easyTouch provide an efficient workflow, which leads to time and cost savings. MERLIC provides powerful tools to design and build complete machine vision applications with a graphical user interface, integrated PLC communication, and image acquisition based on industry standards. All standard machine vision tools such as calibration, measuring, counting, checking, reading, position determination, as well as 3D vision with height images are included in MVTec MERLIC. Furthermore, the software is able to execute tools in parallel, increasing overall efficiency and improving the implementation of multi-camera-setups. MERLIC’s features are all based on the latest state-of-the-art machine vision technologies, such as matching or deep learning. The software is available for Windows-based PC and embedded platforms, making it ideally suited for use in smart cameras. [www.merlic.com](http://www.merlic.com)

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