



AI-based Pick-&-Place for complex workpieces

HD Vision Systems introduces LumiScan Object Handling v2 with integrated AI object recognition. The new software version of the application for vision-guided robotics thus expands the automation spectrum of complex parts using neural networks. The update is available immediately.

HEIDELBERG, 05 OCTOBER 2021 – The young Heidelberg-based company HD Vision Systems is expanding its LumiScan Object Handling product family with a new, AI-based version. With LumiScan Object Handling v2, users are able to use AI-based 2D object recognition and handle point determination on demand. This integrates seamlessly with the still available 3D object recognition using light field technology. The update thus enables companies not only to handle shiny metallic objects fast, easy and reliable, but also workpieces that previously could not be automated due to their complexity - such as bulky bagged goods or transparent small parts.

In addition, LumiScan Object Handling v2 offers a number of other features to facilitate setup and work with the sensor software solution even more easily and intuitively. Thanks to dynamic exposure adjustment, time-consuming testing of suitable settings will no longer be necessary in the future. In addition, communication via Profinet and PLC has been improved. Furthermore, the software now supports all common robot conventions. This additionally simplifies the integration of LumiScan Object Handling into existing systems.

If there are several possibilities to grip a workpiece, LumiScan Object Handling now offers to freely select grip priorities per grip. If several gripping routines, robots or cameras are used, the software now also supports this flawlessly. Due to its modular system, LumiScan Object Handling v2 is thus able to support multiple robots or cameras - or to change them during the running process.

LumiScan Object Handling embraces user-friendliness in its DNA. Here, version v2 goes a big step further: In standard mode, users follow detection and gripping processes with a live view as well as a status display of the system connections used. If required, the neural networks used by the AI can even be replaced during operation with a click. Three different options of pre-matched networks for different object types are available.



The password-secured manual mode allows additional adjustments in the detection: Unrecognized objects can be manually drawn in here and exported as collected training data for the optimization of own networks.

The software update for LumiScan Object Handling is available now. For more information, please visit www.hdvisionsystems.com.

HD Vision Systems enables Machine Vision in a new dimension: The systems consisting of light-field-based image acquisition and intuitive, high-performance software allow quick and easy application for any user. Thanks to reliable detection of metal and gloss as well as fewer occlusions, the ready-to-use systems are suitable for a wide range of objects and surfaces. In addition to object handling solutions, the HD Vision Systems portfolio also includes AI-based quality inspection and 3D scanning.

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