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uniVision 2.3:
Image Processing Software Receives EtherNet/IP™ Interface
New feature strengthens North American market

uniVision, the configurable standard software for two- and three-dimensional image processing, receives another version update. The latest 2.3 release enables quick and easy integration of Smart Cameras and control units in EtherNet/IP™ controls via the EtherNet/IP™ interface. New overlays in the web-based visualization of results are another particularly attractive feature of the update.

New markets through EtherNet/IP™: The open Industrial Ethernet standard, which is being further developed by the ODVA (Open DeviceNet Vendor Association), is now integrated as an interface in wenglor's Smart Cameras and control units. Together with the PROFINET interface, which can also be used in combination with these products, it is the most commonly used industrial protocol in the world. According to a HMS* study, both Industrial Ethernet representatives are the market leaders in 2020 with 17 percent each. "This allows us to make our hardware and software technologies available to even more users," says wenglor product manager Martin Knittel. "We expect even greater access to the North American market in particular, which works predominantly with this technology. Real-time capable protocols are still on the rise – we want to help shape this trend."

Wide Variety of Interfaces for Barrier-Free Image Processing
Results of image and profile evaluations, such as measured values, detected patterns or codes, can be transmitted from the Smart Camera or control unit to the control in real time with this interface. However, it is also possible to send trigger or project load commands and, for example, transmit a match code from the control to uniVision products. This makes seamless communication between the sensor, software and control even easier. In addition to the two PROFINET and EtherNet/IP™ real-time protocols, process data can still be output via digital IOs, TCP/IP or UDP.

New Overlays for Web-Based Visualization
Web-based visualization allows the results to be displayed on any device in the browser. This gives users a clear overview of all relevant results – without the need for complex programming knowledge. Until now, users were only able to display points and lines within the image or profile. The new update also offers the option of displaying circles, arcs and coordinate systems as overlays. "This increases the scope of visualization functions even further – and makes it even easier for users to monitor all results at a glance," explains Knittel.

That's uniVision, the All-in-One Software

The parameterizable uniVision standard software is used to analyze images and height profiles in the field of industrial image processing. Two- and three-dimensional data from Smart Cameras, vision systems and control units with 2D/3D profile sensors can also be evaluated. The software is intuitive and clearly structured like a toolbox. Up to 25 different software modules are available to users in total (e.g. measurement, threshold value, cluster, OCR, pattern matching, tracking etc.), as well as different templates (e.g. to read 1D codes, check presence, detect patterns or to detect colors), depending on the hardware selected.

*HMS Industrial Networks GmbH, market shares in industrial networks 2020

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Complete information covering all aspects of the uniVision software is available on the Internet at www.wenglor.com/uniVision.

Captions

New version, new features: The version 2.3 update includes useful new functions for the uniVision image processing software.

About wenglor sensoric GmbH

wenglor develops innovative automation technologies, such as sensors, security and 2D/3D camera systems with state-of-the-art communication standards for the global market. Founded as a two-man business in 1983, the family company has since evolved into one of the key international sensor suppliers with more than 850 employees around the world. The company with headquarters on Lake Constance in Tettnang, Germany, meets industrial automation challenges for customers in all industry sectors – from automotive manufacturing to the packaging industry. Around the world, over 55,000 customers in 45 countries already trust in the innovation of wenglor products.