With more than 35 years of experience, VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH, headquartered in Wiesbaden (Germany), develops, produces and supplies first-class machine vision systems. With VIRO WSI, the company offers a leading technology for automated weld seam inspection. The optical inspection system consistently inspects weld seams on workpieces 100% objectively and reliably based on previously defined quality criteria and replaces the manual, and therefore error-prone, visual inspection. In order to quickly identify defective welding seams, the system requires a constant real-time coordination between the visual inspection and the handling robot.

The major challenge is to keep the overall cycle time for acquiring the 3D information of every weld seam, analyzing the recorded pictures, and transferring the resulting information to the machine’s controller to a minimum. That process ensures that the robot always reworks the workpiece exactly where the weld seam is defective.

To meet the challenge of integrating VIRO WSI into machines and plants, being independent of the customer’s preferred network protocol, VITRONIC integrates Hilscher’s PC-Cards and is strongly convinced of the new generation’s benefits – especially of cifX M.2 2230 Key A+E.

Therefore, VITRONIC’s application and service engineers focus on their core competences, for example equipping their customers’ plants, machines and devices with strong and reliable vision solutions. The electrical and mechanical commissioning and setup of data transmission is handled in cooperation with VIRO WSI users.

The combination of technologies from both companies shows how synergies from the fields of vision systems and industrial communication leads to solutions that enable plant- and machine builders to create production lines with ZERO recalls in the most flexible way and easily adaptable to the latest communication standards.

Key benefits of cifX PC-Cards for VITRONIC:

- **Flexibility**: Standardized cifX API ensures VIRO WSI systems can adapt across all protocols with the same drivers, tools and interfaces to fit changing customer demands
- **Smallest Size**: M.2 card fits space-savingly into an existing M.2 socket on the mainboard of the IPC
- **Scalability**: PC-Card supports various Real-Time Ethernet and traditional fieldbus networks, e.g. PROFINET IO, EtherNet/IP, PROFIBUS and many more

For more information about VIRO WSI, visit https://bit.ly/36LefBk
For more information about cifX PC-Cards in M.2 format, visit www.hilscher.com/cifXM2a

"Thanks to Hilscher, we are not only able to connect our weld seam inspection application to almost any bus system, but also meet our customers’ requirements for high-performance and, above all, 100% reliable real-time data transmission."

Jürgen Schlesinger
Head of Development and Projects Weld Seam Inspection
Contact

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