

PRESS RELEASE



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Responsible:

Kithara Software GmbH
Uwe Jesgarz

A new perspective on GigE Vision

Image Capturing with 10 Gigabit/s including *Camera Link*



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Kithara Software, specialist in the field of real-time for Windows, has successfully completed the development of a software solution for 10 Gbit Ethernet cameras. The support of GigE Vision® in real-time allows for deterministic image capturing with high data rates, especially for the areas of quality assurance, material transport or robotics.

Based on the real-time Ethernet drivers for 10 gigabit network controllers, developed by Kithara, data captured by cameras with accordingly high transfer rates can now be processed in a matter of a few microseconds. In the context of applications with high-precision and time-critical requirements, such as manufacturing lines, the real-time capability is indispensable.

Uwe Jesgarz, managing director of Kithara Software GmbH, explains the general functionality: "The enhanced memory buffering is extremely reliable in preventing packet loss, whereas the response time to incoming GigE Vision images in the »RealTime Suite« happens within a few microseconds."

An interface-standard in the field of image processing, GigE Vision® (Gigabit Ethernet for Machine Vision) greatly benefits from the popular advantages of Ethernet, such as the use of cost-efficient and standardized hardware, high and flexible data rates as well as extensive cable range. As an IEEE standard, GigE Vision enables the utilization of various different cameras from a diversity of manufacturers, tailored to individual needs.

Even further, cameras with “Camera Link” interface, using an external frame grabber, can be integrated into the Kithara real-time environment. For the first time, it is possible to capture and process image data from “Camera Link”, transferred via a 10 gigabit/s Ethernet link in real-time, compatible with all CL configurations such as Base, Medium and Full (up to 6.8 Gigabit/s). In addition to the real-time capability, the maximum cable distance can be extended from 10 meters to up to 10 kilometers by means of long-range glass fiber.

About Kithara Software GmbH

Kithara Software is a specialist for real-time solutions, especially for the Windows® operating systems family. The real-time extension RealTime Suite is a comprehensive system library for hardware dependent programming, communication, automation and image processing in real-time. The software is an easy-to-use and powerful technical basis for advanced applications in robotics, image processing, measurement and control engineering as well as automation. It is the key element in machine building, for testing rigs and other specialized applications. Kithara Software has a subsidiary in the USA as well as a representation in China and supports global companies in their innovative projects.

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