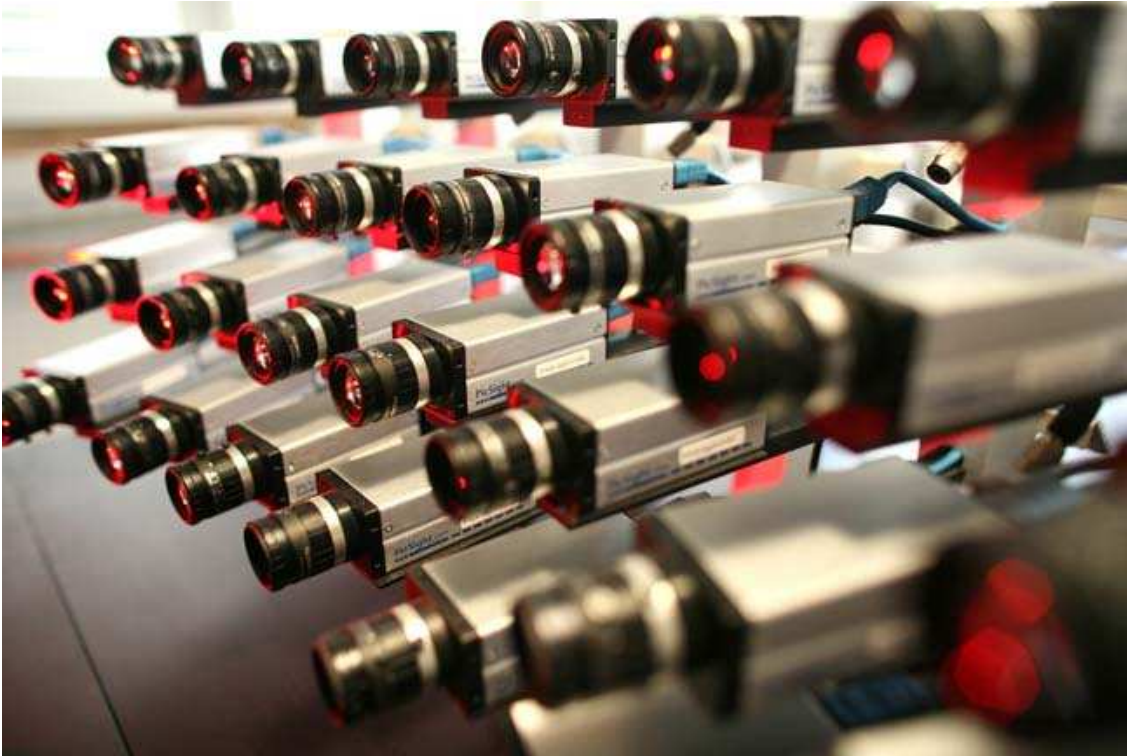


PICSIGHT-GIGE BECOMES GIGE-VISION COMPLIANT



Leutron's powerful PicSight camera family consists of a full range of digital progressive scan cameras with CCD- as well as CMOS sensors. The user has the choice to operate them through a CameraLink- a USB2- or a Gigabit Ethernet interface. The full range of cameras is also as Smart cameras available, which is fully programmable by the customer using our Smart software development environment.

Today's digital cameras are packed with much more functionality than just delivering an image. Processing the image and appending the results to the image data stream, controlling external hardware, and doing the real-time part of the application have become common tasks for machine vision cameras. As a result, the programming interface for cameras has become more and more complex.

As a new feature our Gigabit Ethernet series of cameras has become GigE-Vision and GeniCam compliant. GigE-Vision is a new communication protocol which is based Ethernet's UDP protocol. It is dedicated to digital cameras hosting a Gigabit Ethernet interface. It standardizes a basic command exchange between camera and host, as well as the fast image data transfer from the cameras to the host. Whereas GigE-Vision standardizes the basic communication protocol for data transfer and command exchange, GeniCam hooks up on GigE-Vision and standardizes the camera related features and operating modes.

The advantage for customers is that now digital GigE-cameras become more compatible as the compatibility is accomplished by these two new standards at the Ethernet connectors and no more on vendor specific driver software. So cameras of different vendors become more exchangeable and customers have to deal with one data/command interface only. The bottom side is that customers must hook up directly on these standards, complying with its rules and dealing with quite low-level software interfaces. Those who are not willing to do this effort can stay with the more easy to use vendor specific software interfaces. An alternative is to use one of the leading machine vision software packages, which have a Gige-Vision compliant interface to GigE-cameras already included.

PROJECT: Press Release
TOPIC: PicSight-GigE becomes GigE-Vision compliant

The GigE-Vision compliancy of our PicSight-GigE range of cameras has successfully been tested with the official AIA-test tools, the Matrox-Mil interface, the National Instruments camera compliancy tool, Cognex's PC-Vision software tools, Stemmer's VisionBlox as well as with the software tools Halcon and Active Vision Tools from MVTec.

The cameras are available from stock, existing cameras can be upgraded in the field for free.

Mathias Leumann

LEUTRON VISION AG
Industriestrasse 57
CH-8152 GLATTBRUGG
SWITZERLAND
Phone: +41 44 809 88 22
Fax: +41 44 809 88 29
email: mleumann@leutron.com
web: <http://www.leutron.com>