Product Info

ISRA
V I S I O N
perceptron

VIVA GigE: efficient and economical!
A perfect combination: VIVA + Embedded PC + GigE Cameras

Robot Vision
Inspection
Gauging
Identification

V I V A

NEW: VIVA GigE

Flexible, compact and "Ready-to–Use": Machine vision for factory automation

The VIVA GigE system combines VIVA Vision Automation Software with GigE cameras and ultra-compact embedded PC's into a highly modular vision solution for factory automation: inexpensive, compact and flexible. The Vision Automation Suite is a ready-to-use platform of "bright" vision automation applications for robot vision, quality control, gauging and identification tasks, created extremely easily and ready in an instant. VIVA GigE offers versatile automation solutions to solve a wide range of different tasks: scalable, compact, networked, robust, digital – the solution provided by VIVA GigE with an embedded PC.

VIVA GigE consists of high tech, industry trusted standard components. GigE cameras, lighting and compact embedded PC's feature long life and a low probability of failure. They are the basis for the system's stability. Several cameras can be connected to one computer. The intelligence of the system resides in its software: The VIVA Vision Automation Suite is a highly flexible, user-oriented and cross-industrial platform which includes application packages for 2D and 3D robot, vision, gauging, quality inspection and part identification tasks.

Applications:
- High performance "Ready-to–Use" package solutions for all areas of factory automation
- Designed for end users, consisting of
    - VIVA Vision Automation Suite
    - GigE camera sensors
    - Embedded compact PC's
- For use in all areas of
    - Robot vision
    - Inspection
    - Gauging
    - Identification

Advantages:
- High performance, scalable system
- Cost optimized, compact hardware
- Setup of sensors over a distance of 100 meters
- Highest degree of interconnectivity
- Remote usability
- High precision, simple calibration
- High immunity from interference
- Support of all communication protocols: Ethernet TCP/IP, Profinet, Field Bus…
- Quick installation
- Simple wiring
- Flexible and efficient process optimization

Intelligent GigE Hardware as a fast network accelerator

The VIVA GigE System offers not only the advantages of a highly flexible and simple to use Vision Automation Suite, but also uses especially robust hardware consisting of GigE cameras, a separate, ultra-compact embedded PC and industrial grade components, such as energy supplies, lighting and Ethernet switches. The Gigabit Ethernet standard makes it possible to operate the digital cameras at distances up to 100 meters from the PC. Even at these distances, access to the data obtained in the network is fast and reliable.
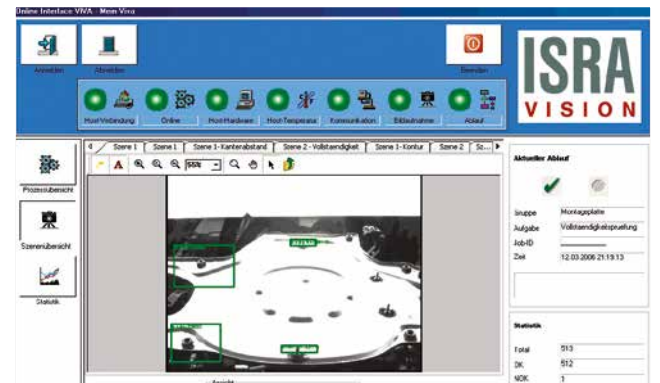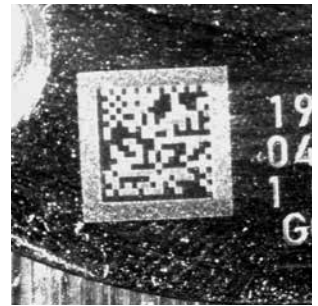
Diversity and performance from every angle

Up to 14 GigE cameras can be used in one system. In particular, the inspection of complex objects often requires the use of multiple cameras which can be controlled by an embedded PC. The user can select from a wide range of standard GigE cameras. If the resolution is not sufficient, a simple upgrade is possible. This means computer power can be brought up-to-date. The entire system can therefore easily benefit from further PC technology development. The systems are scalable at all times depending upon customer needs.

VIVA GigE is highly flexible and is available in several configurations. It can also be configured and operated using a touch screen. The system supports process communication over Ethernet TCP/IP, Profinet IO or preferred field bus protocols. Remote access to a VIVA GigE is possible using a laptop, LAN or WAN. Thus several VIVA GigE systems which are responsible for very different applications can be accessed in this way.

Unlimited combination options

The VIVA GigE System is a ready-to-use solution with which the end user can be successful quickly and at a low cost. In summary: Due to the high degree of modularity, the user can use standard components, and only the ones they need for their applications. Future upgrades are possible at any time. Several cameras can work with one PC, several systems in a network, and different applications can work with one software package - the ability to combine components with VIVA GigE is limitless.

ISRA VISION

Optimize your ROI with the technology leader ISRA
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