

Inspector PIM-series Easy positioning, inspection and measurement

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The Inspector PIM-series provides high-speed positioning, inspection and measurement. Its multi-functional vision toolbox solves a wide range of quality control applications and improves production efficiency. The PIM-series combines smart camera functionality with the ease of use of a vision sensor.

Its powerful toolbox solves inspection, robot guidance and measurement tasks. Thanks to the vision sensor's excellent calibration support, it provides easy-to-use mm data, simplifying guidance and measurement.

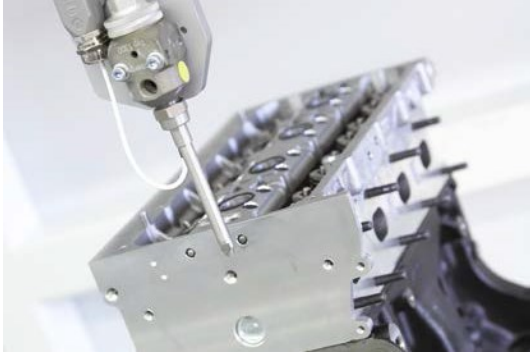
The Inspector PIM-series offers broad connectivity for communicating simple to advanced results via multiple platforms. In addition, the built-in web server enables an easy and cost efficient way to monitor the production process. It can be used right out-of-the-box or customized for easier data visualization and interpretation.

Use PIM60 to maximize quality control and efficiency in your production!

At a glance

- High-speed positioning, inspection and measurement
- Expanded toolbox for diameter, angle and flexible distance measurement
- Multiple, simultaneous inspection of blobs, patterns, edges and pixel counting
- Image calibration, including mm output
- Configurable communication through EtherNet/IP and TCP/IP
- Simple, out-of-the-box web server
- Import of customized web pages

Inspector PIM-series Applications



Belt picking with inspection and dimensioning in automotive manufacturing



Quality inspection with dimension and position control of commercial goods



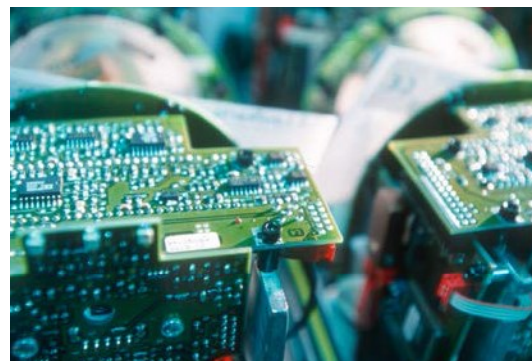
Part inspection and dimension verification in electronic component assembly



Integrated quality control in packaging machines



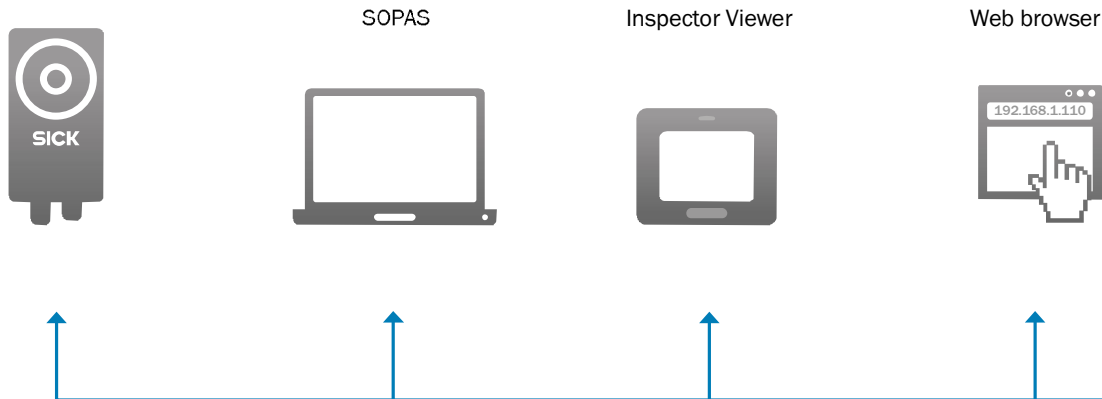
AGV painted line guidance



Calibrated alignment in electronic part assembly

Inspector connectivity

Take greater control of your production plant with the Inspector



The Inspector family offers a broad variety of connectivity features to simplify daily work in a production plant. Tasks like monitoring, trending, making product changeovers and introducing new product variants are easily handled.

Easy-to-use operator interfaces

The Inspector family offers various types of interfaces that will make it easier for you as an operator to oversee daily work more efficiently.

SOPAS is a sophisticated software tool for monitoring, trending and offline handling.

- View images, results and statistics for runtime supervision
- Configuration handling for product changeover
- Device and configuration handling for cloning and field exchange tasks
- Emulator environment for offline configuration and trending

Inspector Viewer provides advanced monitoring and trending functions. It is an accessory panel with an easy-to-use touch screen display.

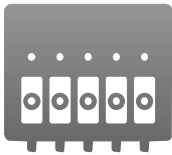
- Viewing of images, result and statistics for runtime supervision
- Image storage and trending of results for post analysis
- Configuration handling for product changeover
- Device and configuration handling for cloning and field exchange tasks

Web server provides simple monitoring and supervision via a standard browser interface.

- Viewing of images for runtime supervision
- Configuration handling for product changeover

Interface support is dependent on device variant.

Digital I/O



EtherNet/IP, TCP/IP, EtherCAT



Web API



FTP



Flexible machine and HMI design interfaces

The Inspector family offers high flexibility for machine integration and customized HMI design for the advanced user.

Digital I/Os provide simple device control and result access, built-in or via an external accessory box.

- Inputs for reference object selection, triggering, teach and encoder control
- Outputs for user defined pass/fail results

EtherNet/IP, TCP/IP and EtherCAT support extended results and control handling.

- Value-based results for machine control and customized trend design
- Image triggering, external teach and reference object selection for centralized device control
- Parameter modification for customized configuration handling

Web API provides a flexible way to make a customized HMI design.

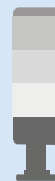
- Viewing of images for runtime supervision
- Configuration handling for product changeover
- Parameter modification for customized configuration handling
- Device and configuration handling for cloning and field exchange tasks

FTP provides continuous support of external image storage.

Inspector results

Digital

- Overall result: pass/fail/not located
- Pass/fail of individual or logical combination of inspections
- Directional guidance



Ethernet

- Match score, scale or size values
- Number of features
- Coordinates and angle

