



MAVIX Machine Vision System

Unleash the power of machine vision with user-friendly vision analysis and presentation software

If your manufacturing process involves complex machine vision inspection or robotic guidance, MAVIX is the right choice for you. MAVIX is a PC-based vision analysis and presentation tool designed specifically for challenging multi-camera, multi-feature automation applications.

Most machine vision interfaces are tool-based, requiring step-by-step inspection sequence development and time consuming optimization. MAVIX is feature-based, allowing users to optimize complex inspection sequences with ease – whether it is vision system re-calibration or adding new part features to be inspected.

Using the stability and security of the .NET platform, MAVIX can be configured for most machine control environments and is compatible with the newest generation of color and high resolution industrial cameras.

MAVIX advantages include:

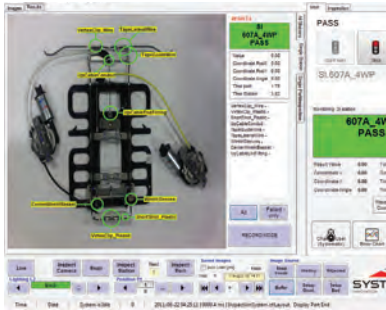
- *Affordability* - an option on all Systematix systems
- *Expandability* – to new parts, part features and vision hardware
- *Configurability* - for new inspection parameters by authorized plant personnel
- *Accessibility* – user friendly interface for easily understood analysis
- *Data archiving* - self-maintaining archive of images and inspection results
- *Security* – defined authorization levels (users, maintenance, or administrators)

Standard MAVIX functions include;

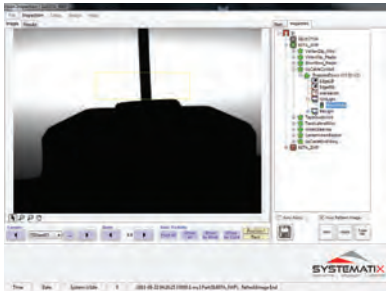
- Gauging
- Quality inspection
- Product identification
- Presence-absence of multiple features
- Material tracking
- Complex robotic guidance

MAVIX uses Gigabit Ethernet protocol for application flexibility, spatial resolution and high data transmission rates. It uses an advanced library of image analysis tools, including OCR, bar code ID, pattern matching, blob, edge, and circle detection. Non-linear calibration allows for the conversion of pixels into real-world measures.

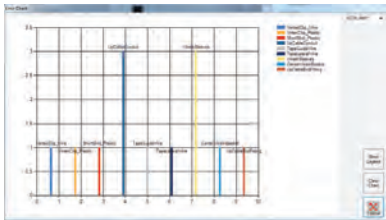




The MAVIX inspection overview screen allows rapid data analysis. Inspection features are labelled on a component diagram and highlighted to indicate all pass/fail criteria. This is extremely helpful in applications where a large number of features are being inspected on one part.



MAVIX uses a tree view to display and organize detailed inspection parameters. This tree view is rooted in your part and its unique features, simplifying the GUI for less experienced operators.



MAVIX collects inspection results sorted by product model and inspection feature.



The MAVIX image buffer allows maintenance and engineering personnel to quickly access images from previous inspections. These images can easily be re-analyzed to troubleshoot system performance. Recent images can be compared to older images to detect subtle part variations.

If you want to get the most out of your machine vision system call us for more information, schedule a live demonstration, or arrange a detailed evaluation of your application.

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