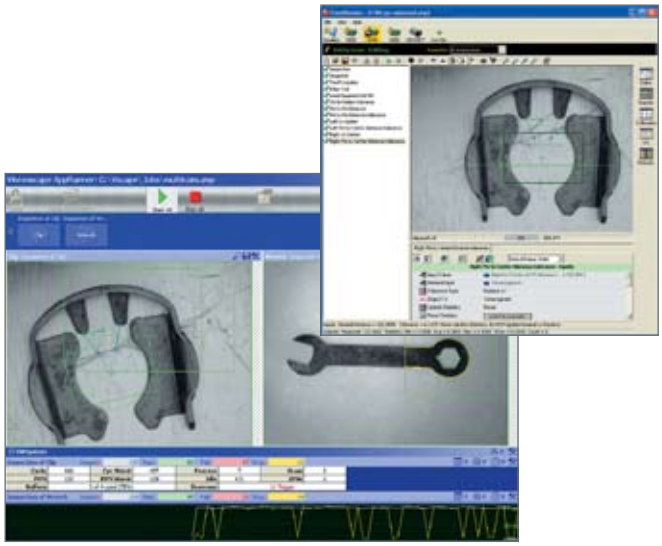
VISIONSCAPE® SOFTWARE



Vision Processing Application

Visionscape software provides all the elements required to develop and deploy machine vision applications in an industrial environment. An extensive collection of proven image processing tools and a powerful graphical user interface (GUI) enable the simple and quick implementation of machine vision applications in any industry.

Visionscape Software: Capabilities

Auto ID Tools

- *Decoding all standard linear barcodes, Data Matrix, and other symbols, Optical Character Recognition (OCR), etc.*

Image Processing Tools

- *Image arithmetic, image rotation and warping, binary and grayscale morphology, edge enhancement, other image filtering, etc.*

Image Analysis Tools

- *Flaw detention, histogram analysis, blob analysis, template and pattern recognition, object location and orientation detections, etc.*

Calibrated Dimensional Measurements

- *Variety of preconfigured measurements such as line intersection, point-to-point distance, point-to-line normal, etc.*

Application Specific and Custom Tools

- *Optical Character Verification (OCV), Ball Grid Array (BGA) inspection, etc.*
- *User-defined expressions and math, custom scripted vision processing tools, etc.*

FrontRunner

FrontRunner engineering user interface enables quick and easy creation of complex vision applications that can be downloaded to any of the Visionscape boards or the HawkEye 1600T intelligent camera, depending on specific application needs.

AppRunner

In the AppRunner standard runtime interface, the user is provided with complete system status, such as the abilities to start/stop the application, collect and review failed images, and present other diagnostic information.

Open ActiveX

A complete set of ActiveX components allow the creation of custom user interfaces and creation of vision applications on the fly.

Customization

From operators on the factory floor to application engineers and developers, Visionscape software offers a configuration environment that can be tailored to different users for maximum productivity.

Application Examples

- Assembly verification (automotive, medical devices,packaging)
- Print quality inspection (pharmaceutical, other)
- Package quality inspection (food and beverage)
- Component presence/ absence checking (electronics)
- Part location (robotics, machine builder)
- Part identification (automotive, electronics, packaging)

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