

Machine Vision Software



Image processing software for any industrial automation application. This platform allows flexibility in creating many distinct functions through a simple user interface. The user can select the type of cameras, frame grabber or I/Os. Up to 6 cameras can be connected to the software to run simultaneously & independently.

Cameras that support this software:

- Toshiba Teli
- Allied Vision Technology
- Basler
- Basumer
- Daheng
- Dahua
- The Imaging Source
- IndCam
- HiK
- Joview



Main Key Feature for the WIZER:
Color Detection
Pattern Matching
Surface Defect
Measurement
Alignment
Code Identificaiton
Optical Character Recognition
Robot Guidance

S/N	Description	Specification
1	Operating System	Window 7/8/10 (64 & 32 bits)
2	CPU	1.9GHz or faster
3	Memory Ram	Minimum 2 GB
4	Storage	64 GB free space
5	Graphic Display	Minimum resolution of 1280 x 800 pixels
6	Licensing	USB security dongle

Color Detection

Processing color images can simplify machine vision tasks and provide solutions to problems not possible in gray value images. Color extraction can differentiate similar colors and confirm proper shades. Able to do product differentiation or detection based on appearance.

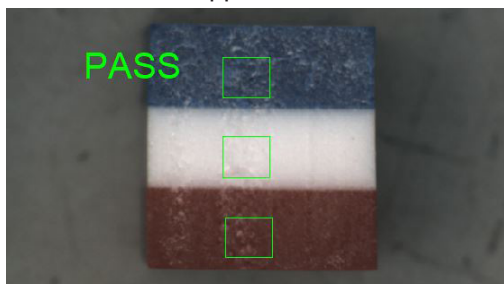


Image example of Color Detection

Pattern Matching

Search and evaluate a configured contour pattern. Finds a comparison with the reference contour, which is useful for alignment purposes, rotation and scale changes, detecting occlusions, or for vision guided robotic applications.

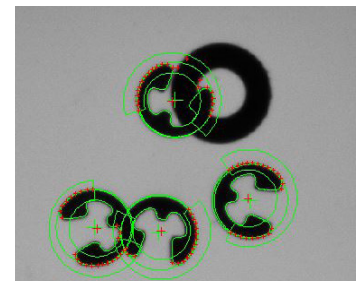
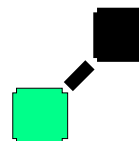


Image example of Pattern Matching

Surface Defect

Automatic evaluation enhances quality control. Using combinations of the available modules and process direction can help detect absence or presence of surface features. The program can detect and classify defects, and automate "Pass" and "No Good" decisions.

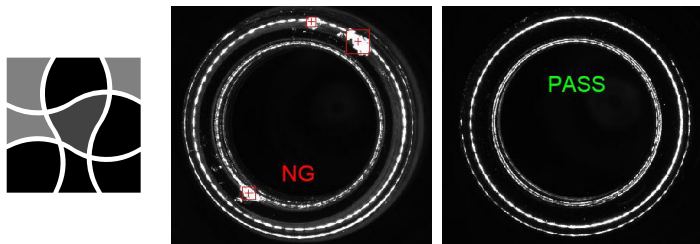


Image example of Surface Defect

Measurement

Measure edges detected with powerful algorithms performing subpixel measurements to achieve high accuracy.

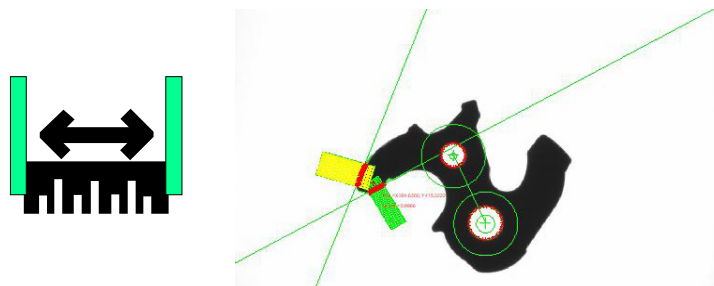


Image example of Measurement

Alignment

Accurate subpixel Matching tools to find objects robustly & accurately even if they are rotated & scaled. And subpixel edge extraction along line/arc to meet high alignment accuracy.

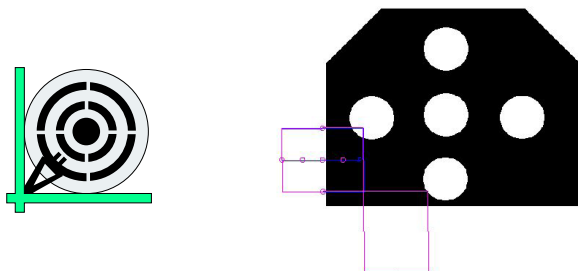


Image example of Alignment

Code Identification

All common barcode can be read in any orientation and able to read ECC200, QR, Micro QR code of any sizes.



Image example of Code Identification

Optical Character Recognition

Able to achieve reliable, robust and accurate OCR result. With pretrained fonts including dot printed, industrial fonts semi fonts, ect.

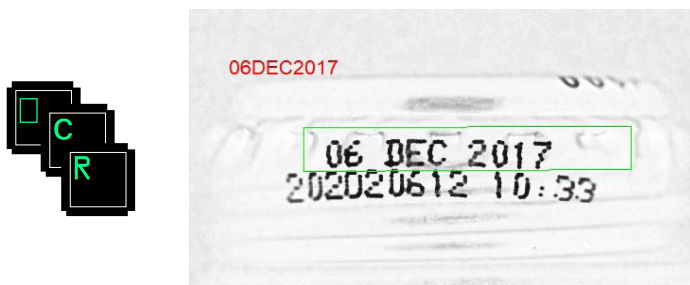


Image example of Optical Characters Recognition

Robot Guidance

Industrial robots that can assist in achieving flexible manufacturing and save development time. They can be programmed to accomplish tasks using the guidance of the software.



Image example of Robot Guidance



For More Information Contact
Siewa Optical America:

Seiwa Optical America Inc
3042 Scott Blvd
Santa Clara, CA 95054
Tel: +408 - 844 - 8008
Fax : +408 - 844 - 8944
Email: info@seiwaamerica.com
<http://www.seiwaamerica.com>