Solvision

Feature Detection · Classification · Instance Segmentation · Anomaly Detection

Solvision

Defect and pattern inspections with AI

Solvision offers a simple and intuitive tool to solve complex machine vision problems. The software, built on layers of advanced neural networks, is best used to recognize irregular patterns and features. Detecting defects such as stains, scratches, burrs, cracks, identifying missing components or items, or sorting similar looking objects are examples of applications easily manageable using Solvision.

Advantages

Easy to learn and implement

Using Solvision to recognize defects or patterns simply requires labeling them, programming skill is not required. Solvision has a simple and intuitive user interface.

Learn from good sample only

For inspections of objects with highly consistent good sample, it's possible to train with only good sample instead of having to label individual defects.

Export detection results

Machine builders and system integrators can easily send Solvision's inspection results to their own software.

Support robot pick and place

Inspection results can be sent to robot for sorting the objects. The optional module supports twenty major robot, cobot, SCARA brands.

Recognize differences difficult for eyes to see

Subtle differences in colorations, contents, and appearances can be easily identified.

OCR

Fast Item Identification
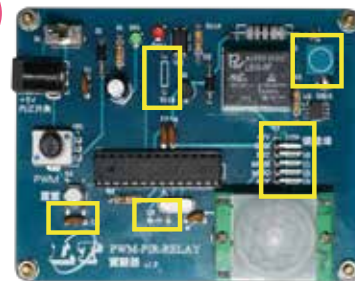
Recognizing Features and Location

Pattern Matching and Categorization

A

B

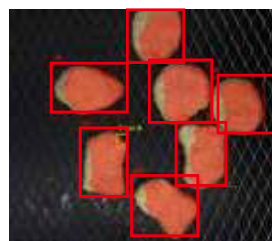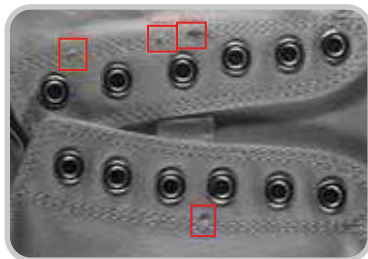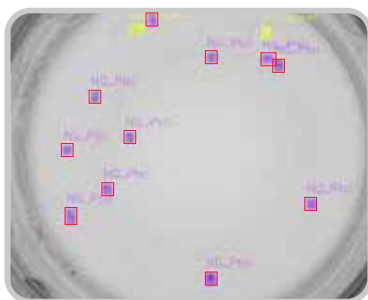## Defect Inspection

OK

NG

Contact lens

OK

NG

Applications

- Sealing
- Inspection
- Assembly
- Rubber & Plastic

- Packaging
- Logistics
- E-Commerce
- Warehouse

- Pick & Place
- Assembly QC
- Chip Packaging
- Electronics

- Food & Beverage
- Medical Devices
- Pharmaceutical
- Human Gesture Detection

- Textile
- Deburring

Solvision

Hardware Requirements	
Module Name	SLM VISAI-0230
Operating System	Windows 10 (64 bit)
Pixels	2.3M
CPU	Minimum : Intel Core i5 Recommended : Intel Core i7
GPU	Minimum : Nvidia GTX 1070 (RAM : 8GB)
RAM	Minimum : 16G Recommended : 32G
Interface	USB 3.0, GenlCam 3.0
Coding Interface	Minimum : .Net framework 4.5.2
Coding Language	C# (WinForm DLL)
Language	English
Image Format	JPEG, PNG, BMP
Supported Robots	✓ Optional

Specifications subjects to change without notice.

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