Solvision
Defect and pattern inspections with AI

Solvision draws on state-of-the-art deep learning technologies to solve common machine vision problems, such as detection of features, defects, and patterns. Programming code is unnecessary for the detection.

This intuitive, human-like approach requires only the input of image samples and the machine will learn to recognize irregular patterns or features by itself, which remained a challenging task for traditional inspection systems.

Solvision comes in two modes of learning：supervised and unsupervised. When in supervised mode, each defect type needs to be identified and trained. While in unsupervised mode, Solvison needs to be shown only the golden sample, and it will be able to identify the differences in inspected objects.
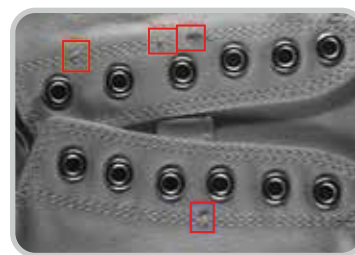
① OCR

- Food & Beverage
- Pharmaceutical
- Chip Packaging
- Packaging
- Metal
- Rubber & Plastic

Defect Inspection

- Electronics
- Footwear
- Textile
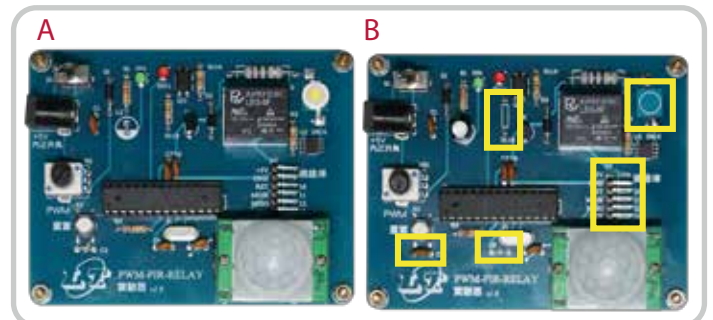- Metal
- Rubber & Plastic
- Medical Devices

Vision Guided Robots

- Sealing
- Deburring
- Inspection
- Assembly
- Packaging

Pattern Matching and Categorization

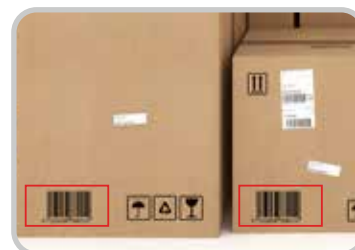A   B

- Assembly QC   - Packaging

Fast Item Identification

- Medical Devices
- E-Commerce
- Warehouse

Recognizing Features and Location

- Packaging
- Logistics
- Pick & Place
- Human Gesture Detection

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 1060 (RAM : 6GB)
RAM	Minimum : 8G Recommended : 16G
Interface	USB 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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