SOLOMON Vision with Intelligence



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.

Export detection results

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

Recognize differences difficult for eyes to see

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

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.

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.

OCR

Fast Item Identification

Recognizing Features and Location







Pattern Matching and Categorization

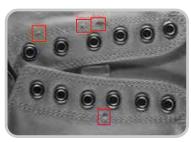


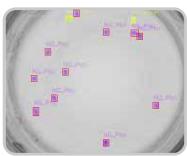






Defect Inspection





Contact lens







NG



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

SLM VISAI-S100 **Module Name Operating System** Windows 10 (64bit) CPU Minimum: Intel Core i5 / Recommended: Intel Core i7 GPU Minimum: Nvidia GTX 1070 (RAM ≥ 8GB) / Recommended: Nvidia RTX 2080 Ti RAM Minimum: 16GB/Recommended: 32GB **Camera Interface** USB 3.0, GenlCam 3.0 TCP / IP, Modbus TCP **Output Interface Coding Interface** • NET Framework 4.8 C # **Coding Language Compatible With** MVTec Halcon, NI LabVIEW Language English PNG, BMP, JPG, JPEG, JPE, JFIF, TIF, TIFF

Specifications subjects to change without notice.

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