Solmotion

Vision guided robot (VGR) system

Solmotion leverages advanced 3D and AI technologies to automatically identify an object, its orientation and position, and quickly calculates and guides a robot to the correct path to complete a required task. The vision guided robot (VGR) system helps users save time and money, and significantly enhances flexibility of production lines. Solmotion works with Universal Robots and Kawasaki robots and is able to detect singularity of individual robot models for the planned path and send out signals. Solmotion offers the following key benefits:

- **Improved production flexibility**
- **Shorter changeover time**
- **Reduced costs associated with mechanical tooling**
- **Increased productivity, allowing operators to carry out more value-added jobs**

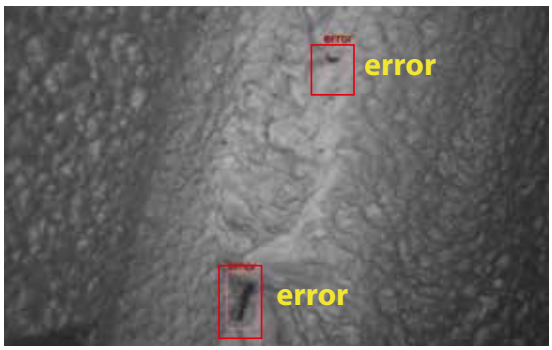
Solmotion's user-friendly interface makes it easy to not only to set the desired robot paths, but also train the software to recognize random changes in part's position and orientation.

Applications

Sealing

Assembly

Inspection



Label

Solmotion

Specifications

Module Name	SLM 3DSCP-0231C	SLM 3DSCP-0501C
Pixels	2.3 M	5 M
Camera Resolution	1920 x 1200	2590 x 2048
Field of View ★★	231 x 178 ~ 1033 x 778 mm	310 x 269 ~ 1202 x 1120 mm
Working Distance ★★	450 ~ 2000 mm	
Spatial Resolution ★	0.24 ~ 1.07 mm	0.24 ~ 1.08 mm
Scanning Time	Minimum : 0.3 Sec	Minimum : 0.8 Sec
Scanning Technology	Structured Light Projection	
Projector Light Source	LED	
Interface	USB 3.0	
Dimensions	363 x 202 x 120 mm (L-W-H)	
Power	AC 100 ~ 240 V / 50 ~ 60 Hz	
Weight	3 kg	
Operating Temperature	0 - 40°C	

★★ Optional

★ The product is not applicable to the transparent objects or objects with over 50% light reflection rate.

Features

Visualized Path Planning	✓
Feature Recognition	✓
Point Clouds Match	✓
Robot Control SDK	✓
AI Recognition ★★	✓

★★ Optional

Specifications subjects to change without notice.