# Solmotion

Solmotion blends 3D vision and machine learning to enhance manufacturing flexibility and productivity. Solmotion intelligently identifies work pieces randomly placed, pinpoints their positions and orientations, then commands robot to carry out specific tasks with high tracking accuracy. 3D vision guided robot (VGR) can be used for applications including sealing, inspection, welding, assembly, labeling, among others.

## Advantages

### Cut mechanical tooling costs

Automatically identifying objects' 3D positions and orientations significantly reduce the costs of designing and making mechanical fixtures.

### Superior return on investment

Only partial scan of object is required to identify its orientation and position, narrowing the field of view (FOV) and space needed to capture object's image without sacrificing the accuracy.

### Reduce changeover time

Robot paths are automatically adjusted for different product models passing through the production line, minimizing time required for changeover.

### Easy interface to set up the robot path

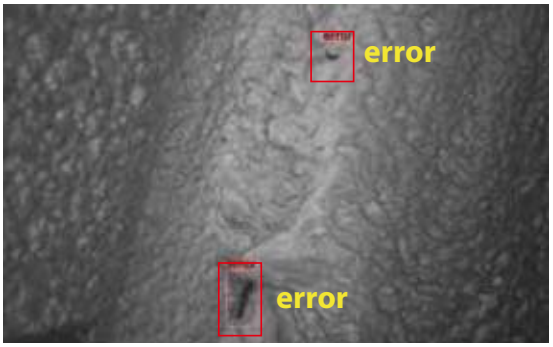
User may determine robot path in Solmotion software, or import an object's CAD file based on which a desired robot path is designated.

## Applications

Sealing


Assembly

Inspection




Label

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## 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 | |

Hardware Requirements (Minimum) : Operating System Windows 10 (64 Bit), GPU Nvidia GTX 1070(RAM:8GB)

★★ 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.