Solscan

Multi-purposed 3D structured light scanner

Solscan offers a fast and reliable way to develop various 3D applications, giving system integrators, machine builders, and industrial end users a perfect tool to easily customize 3D applications. Solscan 3D scanning is based on structured light technology, and is capable of generating a massive and accurate point cloud on an object.

- **Fast Scanning**
  Solscan completes a scanning process in about 1.5 seconds and outputs high-quality point clouds from six-axis(x, y, z, Nx, Ny, Nz) configurations.

- **Dual Camera**
  Two built-in 2D cameras are constantly on the lookout for any fault with occlusion due to over-lapping objects.

- **Color Function**
  Solscan is equipped with RGB cameras, making it possible to develop applications that are important in dealing with color differentiation.

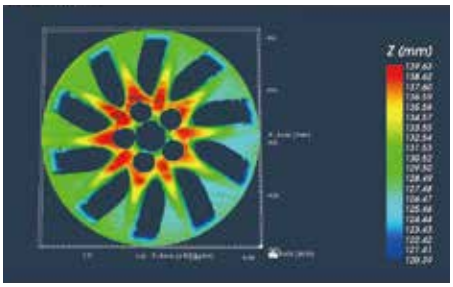
- **Friendly GUI**
  Solscan comes with an easy-to-use GUI, and also software for point cloud export.

- **Complements Solomon 3D software**
  Solscan scanner is seamlessly integrated with AccuPick and Solmotion software, which have been used by customers in different applications.

- **GenIcam 3D Interface**
  Solscan comes with a GenIcam 3D interface, which can help simplify tasks for users of such 3D software as Halcon or Common Vision Blox (CVB).

Applications


Object Recognition & Classification

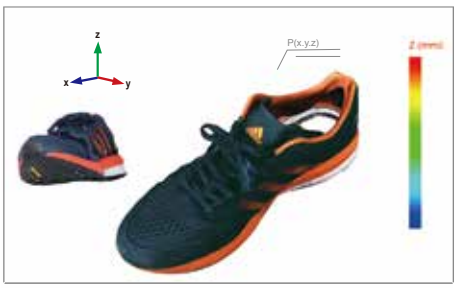


Measurement

Pick & Place


Robot Guiding


Object Scanning


VR/AR 3D

Solscan

Specifications

Module Name	SLM 3DSCN-0231C	SLM 3DSCN-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.

User Applications

3D Dimensional Measurement	✓
Quality Inspection	✓
Object Recognition	✓
Pick & Place	✓
Mesh Generation	✓
Log File	✓
Export Formats	STL, PLY, OBJ, VRML, 3DS, FCS, TXT

Specifications subjects to change without notice.