

AccuPick Bin picking just got smarter

The award-winning **AccuPick 3D** solves complex and diverse bin picking problems with advanced AI technologies. AccuPick 3D recognizes objects and patterns difficult for standard bin picking systems to identify. Users may choose any 3D scanning technology supported by AccuPick 3D software based on the needs of individual applications. Optional software module allows rapid robot path planning for bin collision avoidance. Fast and seamless integration of 3D scanning, AI-based recognition, and motion planning is what makes AccuPick 3D the ideal solution for all your pick-and-place needs.

- AccuPick 3D software is scanner agnostic, supporting structured light, active stereo vision, time-of-flight (ToF), and laser triangulation scanners.
- CAD file not required for object recognition, applicable to objects with variations in sizes and shapes.
- Open platform solution: AccuPick supports 16 robot brands and communicates with all major PLCs.
- Training the software to recognize objects, even ones with challenging features and patterns, takes only a few hours.
- Learning to operate the software is simple with a step-by-step guide.

Applications



Fast Path Planning to Avoid Bin Collision



De-palletization



Picking Unknown Items



Small Objects (<1cm)




E-commerce Logistics



Items with Varied Shapes & Sizes

AccuPick



Specifications						
Module Name	SLM 3DRBP-0231C	SLM 3DRBP-0501C	SLM 3DRBP-0120C	SLM 3DRBP-0320B	SLM SVRBP-0092C	
Pixels	2.3 M	5 M	1.2 M	3.2 M	0.92 M	
Camera Resolution	1920 x 1200	2590 x 2048	1280 x 960	2064 x 1544	1280 x 720	
Field of View ★★	231 x 178 ~ 1033 x 778mm	310 x 269 ~ 1202 x 1120mm	470 x 370 ~ 2120 x 1690mm	180 x 135 x 90mm (L-W-H)	900 x 520 (at distance of 450mm) ~ 18000 x 10400 mm (at distance of 9000mm)	
Working Distance ★★	450 ~ 2000 mm			414mm (±45mm)	450 ~ 9000 mm	
Spatial Resolution ★	0.24 ~ 1.07 mm	0.24 ~ 1.08 mm	0.5 ~ 2 mm	0.09 mm	0.7 ~ 14 mm	
Scanning Time (Minimum)	0.3 Sec	0.8 Sec	0.05 Sec	0.5 Sec	0.033 Sec	
Scanning Technology	Structured Light Projection		Infrared Light	Structured Light Projection	Active IR Stereo Depth	
Projector Light Source	LED		LED	LED	IR Laser	
Interface	USB 3.0		Ethernet	USB 3.0	USB 3.0	
Dimensions(L-W-H)	363 x 202 x 120 mm		125 x 30 x 90 mm	309 x 166 x 57 mm	90 x 25 x 25 mm	
Power	AC 100 ~ 240 V / 50 ~ 60 Hz		DC 24V	AC 100 ~ 240 V / 50 ~ 60 Hz	USB 3.0	
Weight	3 kg		0.5 kg	2.6 kg	0.263 kg	
Operating Temperature	0 - 40°C				0 - 35°C	

★★ Optional

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

Features

Color Camera	✓	(Not applicable to SLM 3DRBP-0320B)
Import CAD File	✓	
No CAD File	✓	
Point Clouds Match	✓	
Deep Learning Recognition	✓	
Bin Collision Avoidance ★★	✓	
Motion Planning ★★	✓	

★★ Optional

Specifications subjects to change without notice.