3D SOLUTION

JM Vistec System Pte Ltd

MECH-MIND

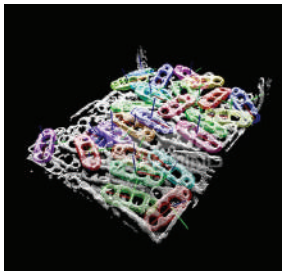
MECH MIND

Mech-Eye Industrial 3D Camera
Mech-Vision Graphical Machine Vision Software
Mech-DL Kit Offline Deep Learning Tool
Mech-Viz Intelligent Robot Programming Environment

Mech-Vision Machine Vision Software

Mech-Vision is designed to build simple or complex vision applications.
With Mech-Vision, users can manage a wide range of applications that includes bin picking, piece pickin and many more.

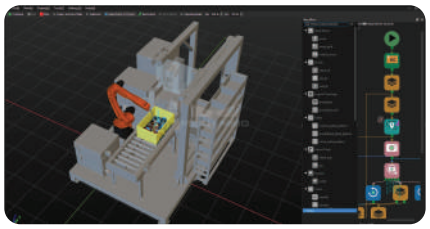
- ★ Code-free graphical interface, ease of use
- ★ Built-in advanced algorithm modules
- ★ Various built-in typical application plug-ins

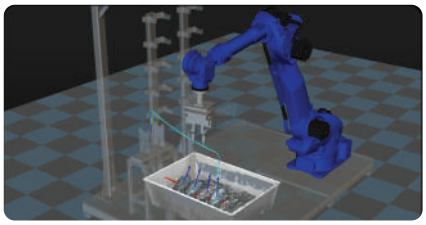


Point cloud processed by Mech-Vision

Mech-Viz Robot Programming Software

Mech-Viz is built in multiple intelligent algorithms and realize one-click simulation of robot path.
With Mech-Viz, users can manage a wide range of applications that includes bin picking, piece pickin and many more.





- ★ Process-oriented interface, one click simulation, ease of use
- ★ Built-in intelligent algorithms
- ★ Compatible with various mainstream robot brands

Mech-Viz Compatible Robotic Arms

ABB KUKA YASKAWA FANUC Kawasaki
NACHI DENSO UNIVERSAL ROBOTS STÄUBLI EFORT
GREE ROKAE ELITE ROBOTS PEITIAN ROBOTICS TM ROBOT
ESTUN ROBOTICS TURIN AUBO DOBOT QJAR
HAN'S ROBOT HYUNDAI JAKA SIASUN DELTA

JM VisTec System
"Our Vision, Tomorrow's Innovation"
The Machine Vision Specialist

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SCAN ME FOR MORE INFO

Mech-Eye Industrial 3D Camera

Mech-Eye Industrial 3D Camera with high performance can generate high-quality 3D data for various goods.
Our model options can satisfy needs of ambient light resistance, high precision, high speed, and small sizes in different scenarios.

Product Parameters	Nano	UHP-140	Pro S	Pro M	LSR L	LSR S	Deep	Pro XS	Log S	Log M
										
Optimal Scanning Range (mm)	300 - 600	300 ± 20	500 - 1000	1000 - 2000	1200 - 3000	500 - 1500	1200 - 3500	1200 - 3500	500 - 1000	800 - 2000
Near FOV (mm)	220 × 150 @ 0.3 m	135 × 90 @ 280 mm	370 × 240 @ 0.5 m	800 × 450 @ 1.0 m	1200 × 1000 @ 1.2 m	1500 × 1200 @ 1.5 m	970 × 1160 @ 1.2 m	970 × 1160 @ 1.2 m	360 × 250 @ 0.5 m	520 × 390 @ 0.8 m
Far FOV (mm)	440 × 300 @ 0.6 m	150 × 100 @ 320 mm	800 × 450 @ 1.0 m	1360 × 890 @ 2.0 m	3000 × 2400 @ 3.0 m	3000 × 2400 @ 3.0 m	2830 × 3320 @ 3.5 m	2830 × 3320 @ 3.5 m	710 × 490 @ 1.0 m	1410 × 960 @ 2.0 m
Resolution	1280 × 1024	2048 × 1536	1920 × 1200	1920 × 1200	Depth Map： 2048 × 1536 RGB： 4000 x 3000 2000 x 1500	Depth Map： 2048 × 1536 RGB： 4000 x 3000 2000 x 1500	2048 × 1536	2048 × 1536	1280 × 1024	1280 × 1024
Megapixels (MP)	1.3	3	2.3	2.3	3.0	3.0	3.0	3.0	1.3	1.3
Z Repeatability(σ)	0.1 mm @ 0.5 m	2.6 μm @ 0.3m **Region： 0.09 μm @ 0.3 m	0.05 mm @ 1 m	0.2 mm @ 2 m	0.5 mm @ 3 m	0.2 mm @ 1.5 m	1.0 mm @ 3 m	1.0 mm @ 0.5 m	0.1 mm @ 1 m	0.3 mm @ 2 m
VDI/VDE Accuracy	0.1 mm @ 0.5 m	0.03 mm @ 0.3 m	0.1 mm @ 1 m	0.2 mm @ 2 m	1.0 mm @ 3 m	1.0 mm @ 1.5 m	3.0 mm @ 3 m	0.1 mm @ 3 m	0.2 mm @ 1 m	0.3 mm @ 2 m
Typical Capture Time (s)	0.6 - 1.1	0.6 - 0.9	0.3 - 0.6	0.3 - 0.6	0.5 - 0.9	0.5 - 0.9	0.7 - 1.1	0.7 - 1.1	0.3 - 0.5	0.3 - 0.5
Baseline (mm)	68	80	180	270	380	140	400	93	150	280
Dimensions (mm)	145 × 51 × 85		265 × 57 × 100	353 × 57 × 100	459 × 77 × 86	222 × 77 × 86	481 × 98 × 145	160 × 98 × 87	270 × 72 × 130	387 × 72 × 130
Weight (kg)	0.7		1.6	1.9	2.9	1.8	4.3	0.8	2.2	2.4
Operating Temperature (°C)	0 - 45				-10 - 45		0 - 45			
Communication Interface	Ethernet									
Input	24V DC,1.5 A	24V DC, 3.75 A						24V DC,1.5 A	24V DC, 3.75 A	
Safety and EMC	CE/FCC/VCCI.UKCA/KC							CE/FCC/VCCI		
Light Source	Blue LED (459 nm, RG2)	Red laser (638 nm, Class 2)						Blue LED (459 nm, RG2)		
Power Supply	IP65									
Cooling	Passive									

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