MECH MIND

Mech-Eye LSR L Industrial 3D Camera

- High accuracy
- Large FOV
- Ambient light resistance
- Ideal for robotic guidance

IP65 water & dust proof

High stability

Fast scanning

High cost performance

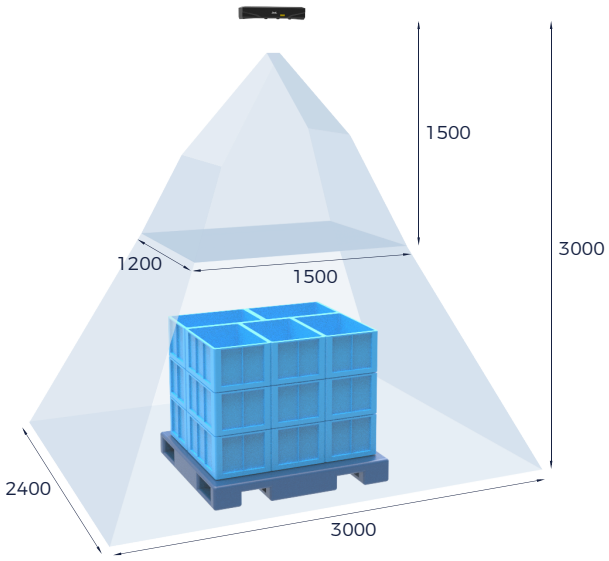
Superb usability

Specification

Opitimal Scanning Range (mm) : 1500 - 3000
Near FOV (mm) : 1500 × 1200 @ 1.5 m
Far FOV (mm) : 3000 × 2400 @ 3.0 m
Depth Resolution: 2048 × 1536
RGB Resolution: 4000 × 3000/2000 × 1500
*Point Repeatability Z (σ) : 0.5 mm @ 3.0 m
**VDI/VDE Accuracy: 1.0 mm @ 3.0 m
Typical Capture Time (s) : 0.5 - 0.9
Image Sensor: Sony CMOS for High-end Machine Vision
Dimensions (mm) : 459 × 77 × 86

Baseline (mm): 380
Weight (kg) : 2.9
Operating Temperature (℃) : -10 - 45
Communication Interface: Ethernet
Power Supply: 24V DC
Safety and EMC: CE/FCC/VCCI
Protection Class: IP65
Cooling: Passive
Mean Time Between Failures (h) : ≥ 40,000

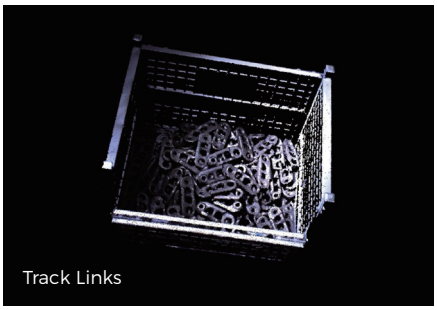
Field of View (mm)

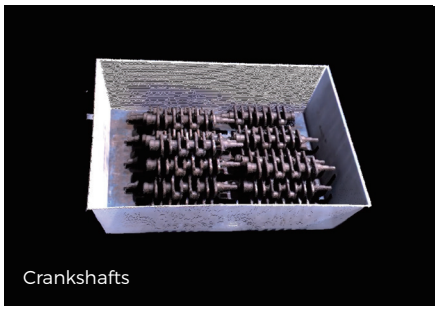


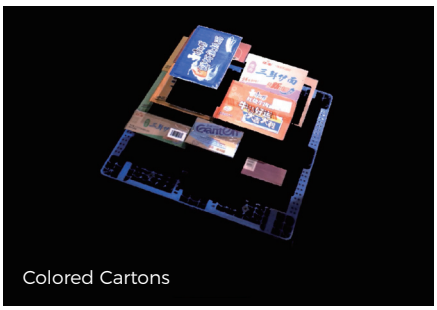
*The standard deviation of the single point Z value for 100 measurements. The measurement target is a ceramic plate.
**Refer to VDI/VDE 2634 Part II.

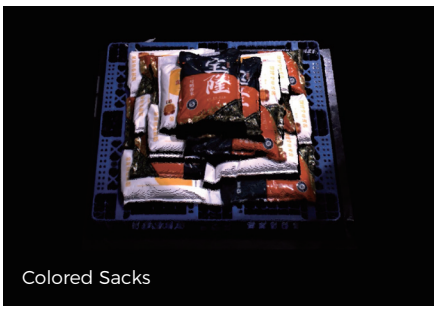
Point Clouds

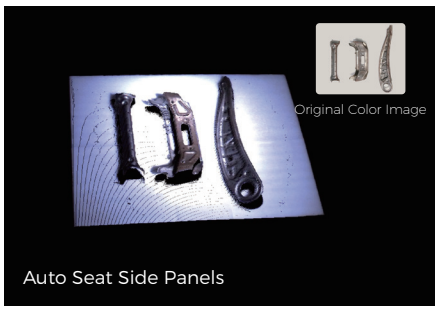
- Mech-Eye LSR L with improved ambient light resistance can generate complete, accurate, and detailed point clouds of typical objects in light conditions of > 30,000 lx.
- The new Mech-Eye LSR L can output accurate and high-quality colored 3D point clouds of colored cartons, sacks, and more.
- With advanced optical algorithms and technologies, Mech-Eye LSR L outputs complete 3D images of reflective objects.









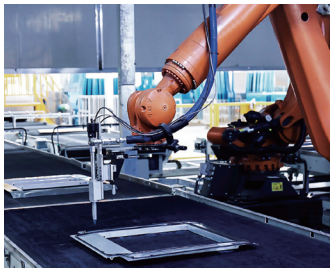


Point clouds captured by Mech-Eye LSR L under challenging light conditions of >30,000 lx @ 2.0 m

Broad Application Coverage

- Mech-Eye LSR is ideal for factory-floor applications with strong ambient light interference, minimizing the need for shading facilities.

- Mech-Eye LSR has been widely implemented in a wide range of typical applications, including bin picking, machine tending, localization, gluing, spraying, welding, etc.



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