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

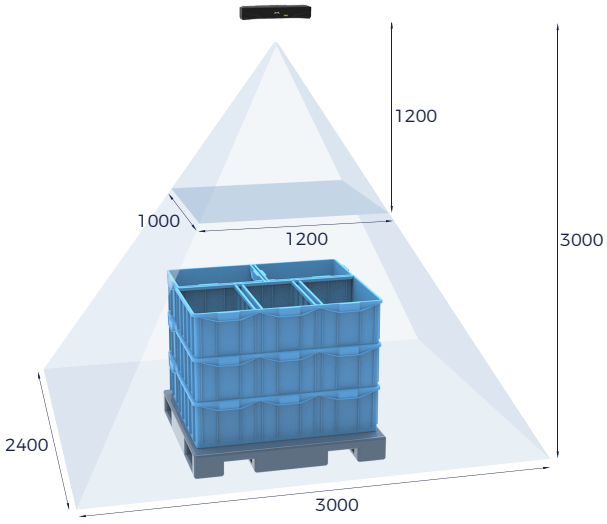
Superb usability

Specification

Recommended working distance: 1200–3000 mm
Near FOV: 1200 × 1000 mm @ 1.2 m
Far FOV: 3000 × 2400 mm @ 3.0 m
Depth map resolution: 2048 × 1536
RGB resolution: 4000 × 3000/2000 × 1500
Point Z-value repeatability (σ)[1]: 0.5 mm @ 3.0 m
Measurement accuracy (VDI/VDE)[2]: 1.0 mm @ 3.0 m
Typical capture time: 0.5–0.9 s
Image sensor: Sony CMOS for high-end machine vision
Dimensions: Approx. 459 × 77 × 86 mm

Baseline: Approx. 380 mm
Weight: Approx. 2.9 kg
Operating temperature: -10–45°C
Communication interface: Gigabit Ethernet
Input: 24 V DC, 3.75 A
Safety and EMC: CE/FCC/VCCI/UKCA/KC/ISED/NRTL
IP rating: IP65
Cooling: Passive
Light source: Red laser (638 nm, Class 2)
MTBF (Mean Time Between Failures) : ≥ 40,000 hours

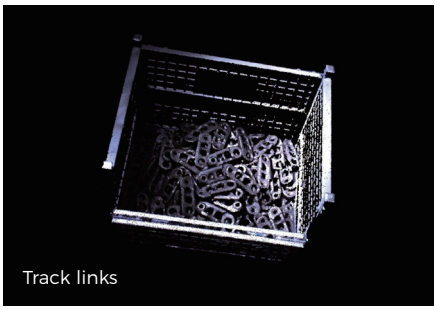
Field of View (mm)

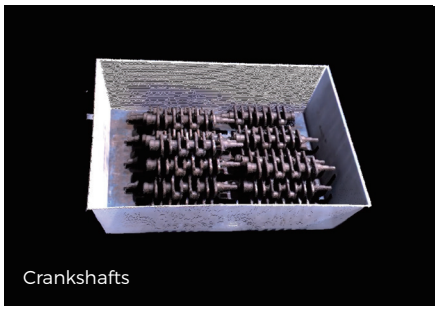


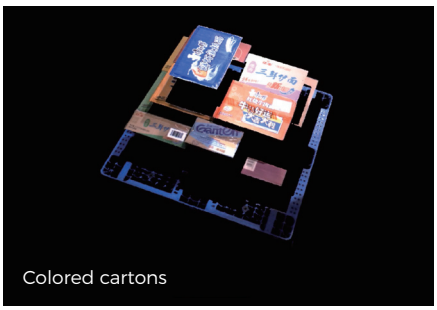
[1] One standard deviation of 100 Z-value measurements of the same point. The measurement target was a ceramic plate.
[2] According to VDI/VDE 2634 Part II.

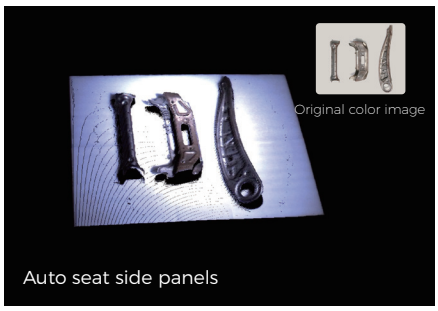
Point Clouds

- The Mech-Eye LSR L, enhanced for superior resistance to ambient light, can generate comprehensive, precise, and detailed point clouds of targets even under demanding lighting conditions of > 30,000 lx.
- The new Mech-Eye LSR L can output accurate and high-quality colored 3D point clouds of multicolored cartons, sacks, and more.
- With advanced optical algorithms and technologies, Mech-Eye LSR L outputs complete 3D images of highly-reflective objects.







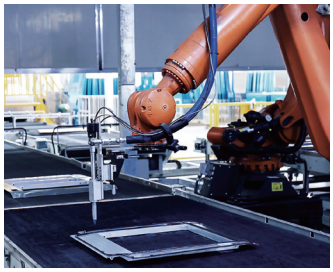


Point clouds captured by Mech-Eye LSR L under challenging light conditions of >30,000 lx @ 2.0 m

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 used in a wide range of applications, including bin picking, machine tending, localization, welding, etc.



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