MECH MIND

Mech-Eye LSR L-GL Industrial 3D Camera

MTBF (Mean Time Between Failures): ≥ 100,000 hours

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

IP65

IP65 water & dust proof

High stability

Fast scanning

High cost performance

Superb usability

Specifications

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: 380 mm

Weight: 2.9 kg

Operating temperature: -10–45°C

Communication interface: Gigabit Ethernet

Input: 24 V DC, 3.75 A
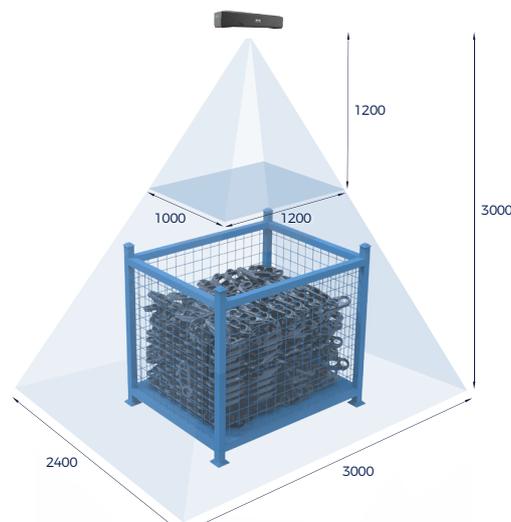
Safety and EMC: CE/FCC/VCCI/KC/ISED/NRTL

IP rating: IP65

Cooling: Passive

Light source: Red laser (638 nm, Class 2)

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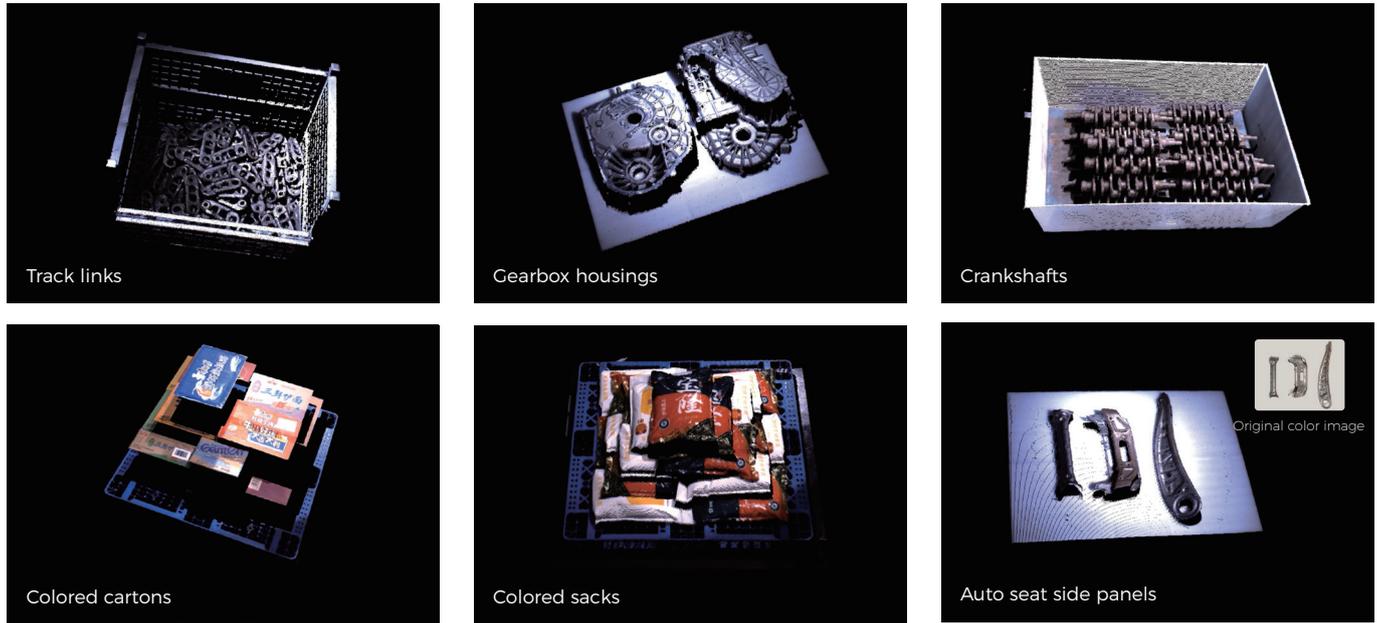
Field of View (mm)

1200
3000
1000
1200
2400
3000

Specifications are subject to the official website.

[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-GL, 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-GL 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-GL outputs complete 3D images of highly-reflective objects.

Track links

Gearbox housings

Crankshafts

Colored cartons

Colored sacks

Original color image
Auto seat side panels

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

Broad Application Coverage

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

- Mech-Eye LSR L-GL has been widely used in a wide range of applications, including bin picking, machine tending, localization, welding, etc.