

# 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

Optimal Scanning Range (mm) : 1200 - 3000

Near FOV (mm) : 1200 × 1000 @ 1.2 m

Far FOV (mm) : 3000 × 2400 @ 3.0 m

Depth Resolution: 2048 × 1536

RGB Resolution: 4000 × 3000/2000 × 1500

\*Point Repeatability Z ( $\sigma$ ) : 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 (°C) : -10 - 45

Communication Interface: Ethernet

Power Supply: 24V DC

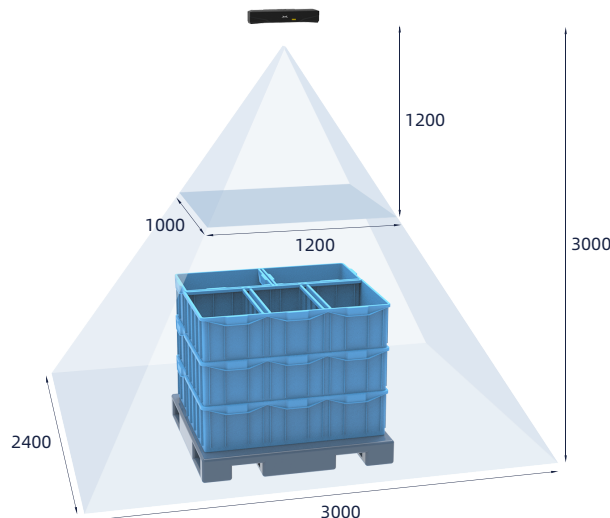
Safety and EMC: CE/FCC/VCCI

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.

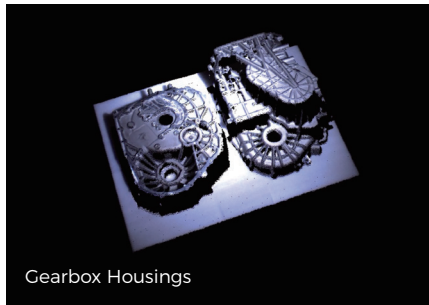
\*\*Refer to VDI/VDE 2634 Part II.

## Point Clouds

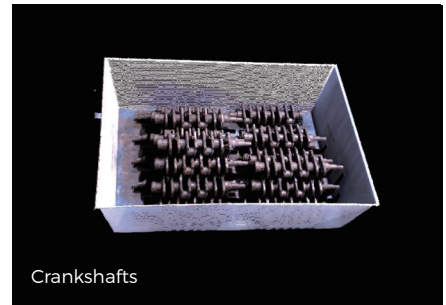
- Mech-Eye LSR L with improved ambient light resistance can generate complete, accurate, and detailed point clouds of typical objects in light conditions of > 30,000 lx.
- The new Mech-Eye LSR L can output accurate and high-quality colored 3D point clouds of colored cartons, sacks, and more.
- With advanced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



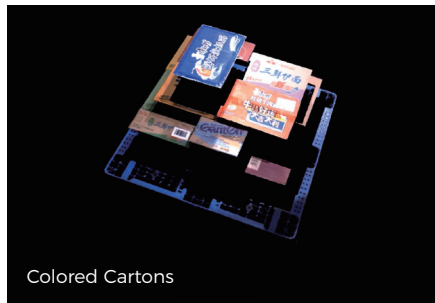
Track Links



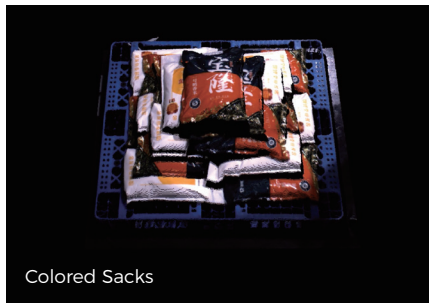
Gearbox Housings



Crankshafts



Colored Cartons



Colored Sacks



Auto Seat Side Panels

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.



Distribution Partner:



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