Mech-Eye NANO
Palm-Sized Industrial 3D Camera

High Precision · Small Size · Fast Acquisition
High Flexibility · Easy Integration · Competitive Price

MTBF (Mean Time Between Failures): **≥ 40,000 hours**

Specification

Recommended working distance: 300–600 mm

Near FOV: 220 × 150 mm @ 0.3 m

Far FOV: 440 × 300 mm @ 0.6 m

Resolution: 1280 × 1024

Megapixels: 1.3 MP

Operating temperature: 0–45°C

Communication interface: Gigabit Ethernet

IP rating: IP65

Image sensor: Sony CMOS for high-end machine vision

Point Z-value repeatability (σ)[1]: 0.1 mm @ 0.5 m

Measurement accuracy (VDI/VDE)[2]: 0.1 mm @ 0.5 m

Typical capture time: 0.6–1.1 s

Baseline: Approx. 68 mm

Dimensions: Approx. 145 × 51 × 85 mm
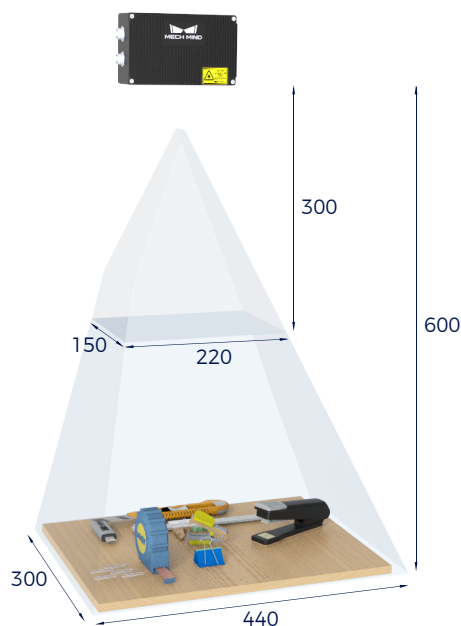
Weight: Approx. 0.7 kg

Input: 24 V DC, 1.5 A

Light source: Blue LED (459 nm, RG2)
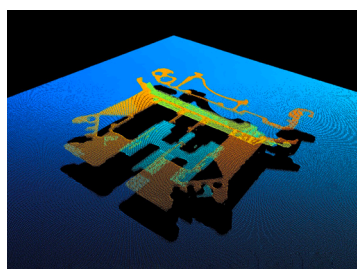
Safety and EMC: CE/FCC/VCCI/UKCA/KC/ISED/NRTL

Cooling: Passive
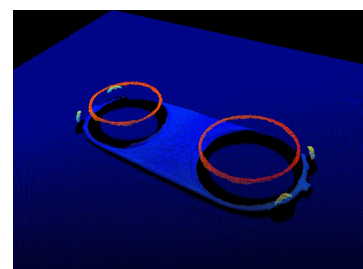
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Field of View (mm)

300
600
150
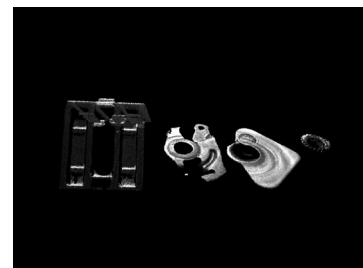220
300
440

Point Clouds

Precision component

0.68 mm thick workpiece

Car charging port

Small parts

[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.