Mech-Eye PRO Industrial 3D Cameras

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

- High accuracy
- High-speed structured light
- Blue & white light options
- For medium-range applications

Fast scanning speed　　Flexible installation　　IP65 water and dust proof　　Competitive price　　Universal interface
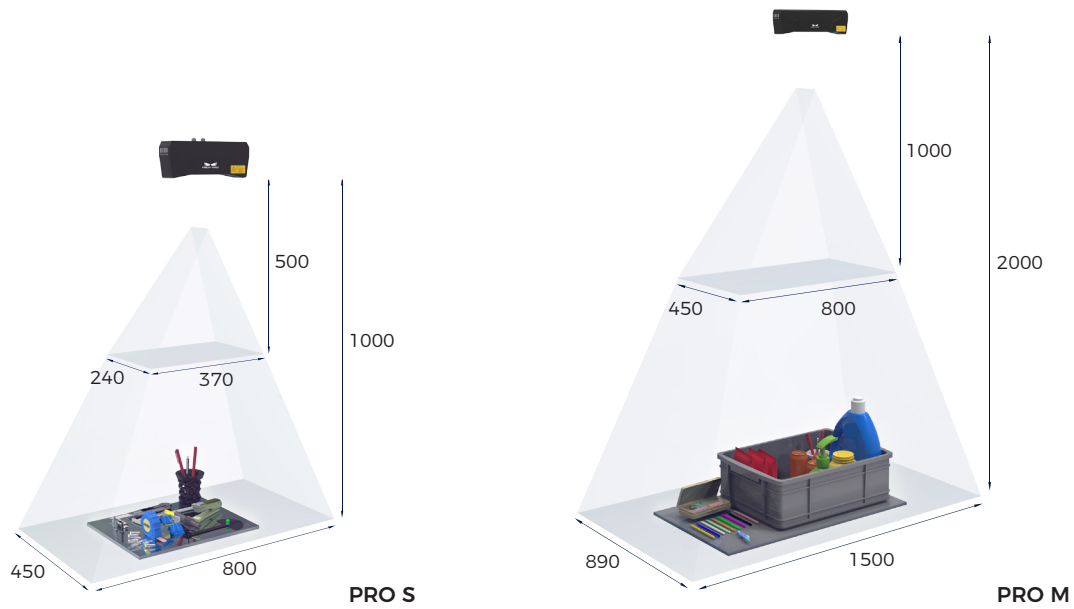
Specification

	PRO S	PRO M
Recommended working distance:	500–1000 mm	1000–2000 mm
Near FOV:	370 × 240 mm @ 0.5 m	800 × 450 mm @ 1.0 m
Far FOV:	800 × 450 mm @ 1.0 m	1500 × 890 mm @ 2.0 m
Resolution:	1920 × 1200	1920 × 1200
Megapixels:	2.3 MP	2.3 MP
Point Z-value repeatability (σ)[1]:	0.05 mm @ 1.0 m	0.2 mm @ 2.0 m
Measurement accuracy (VDI/VDE)[2]:	0.1 mm @ 1.0 m	0.2 mm @ 2.0 m
Typical capture time:	0.3–0.6 s	0.3–0.6 s
Dimensions:	Approx. 265 × 57 × 100 mm	Approx. 353 × 57 × 100 mm
Baseline:	Approx. 180 mm	Approx. 270 mm
Weight:	Approx. 1.6 kg	Approx. 1.9 kg
Light source:	Blue LED (459 nm, RG2)/White LED (RG2)	Blue LED (459 nm, RG2)/White LED (RG2)
Operating temperature:	0–45°C	0–45°C
Communication interface:	Gigabit Ethernet	Gigabit Ethernet
Input:	24 V DC, 3.75 A	24 V DC, 3.75 A
Safety and EMC:	CE/FCC/VCCI/UKCA/KC/ISED/NRTL	CE/FCC/VCCI/UKCA/KC/ISED/NRTL
IP rating:	IP65	IP65
Cooling:	Passive	Passive
Image sensor:	Sony CMOS for high-end machine vision	Sony CMOS for high-end machine vision
MTBF (Mean Time Between Failures):	≥ 40,000 hours	≥ 40,000 hours

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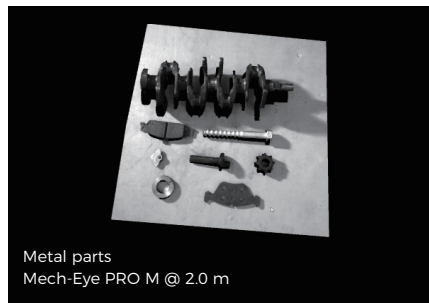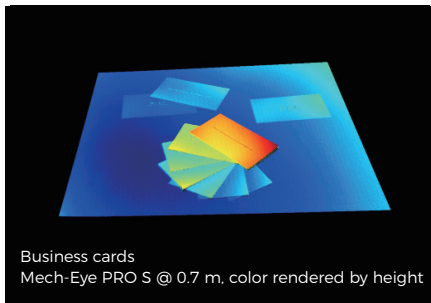[2] According to VDI/VDE 2634 Part II.

Field of View (mm)

500
1000
240
370
450
800
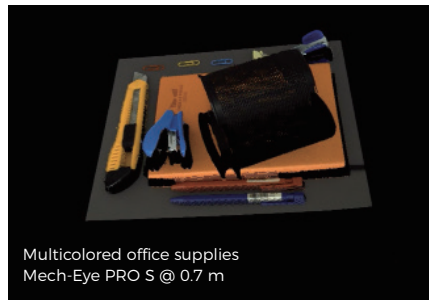**PRO S**

1000
2000
450
800
890
1500
PRO M

Point Clouds

- Mech-Eye PRO outputs complete, detailed, and accurate 3D point clouds of metals, plastics, wood, and more under demanding light conditions of > 20,000 lx.[1]

Business cards
Mech-Eye PRO S @ 0.7 m, color rendered by height

Metal parts
Mech-Eye PRO M @ 2.0 m

Dark objects
Mech-Eye PRO S @ 0.8 m

- Mech-Eye PRO color version can output accurate and high-quality colored 3D point clouds.
- With enhanced performance for reflection, Mech-Eye PRO can generate high-quality imaging of reflective objects.

Colored goods
Mech-Eye PRO M @ 2.0 m

Multicolored office supplies
Mech-Eye PRO S @ 0.7 m

Reflective objects
Mech-Eye PRO S @ 0.6 m

[1] Applicable to monochrome version