Mech-Eye UHP-140

DATASHEET

Mech-Eye UHP-140

With a **working distance of 300 mm (+/- 20 mm)** and an extremely high **VDI/VDE accuracy of 0.03 mm**, the UHP-140 offers a solution for applications where ultra-high accuracy is required.

Specifications

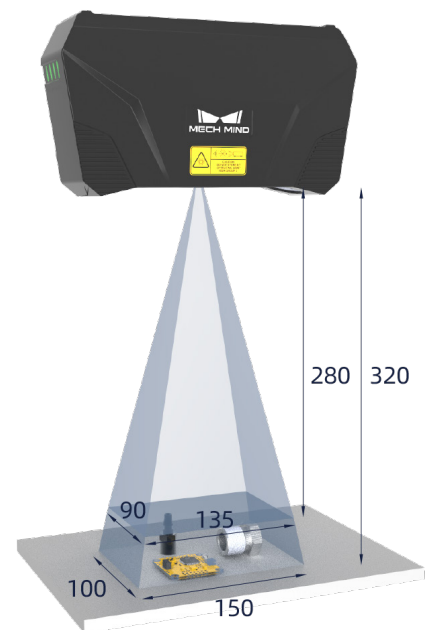The UHP-140 is ideal for applications such as highly accurate robot guiding and gauging.
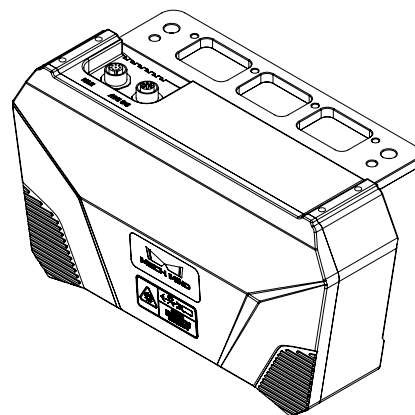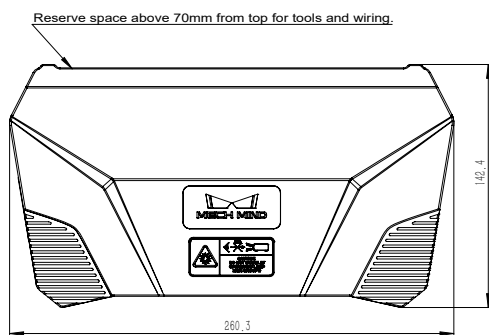
Scope of delivery

UHP-140 Camera

Power - M12, 4-pin, A-coded to EU 230 (6 m) ∗

Data -   M12, 8-pin, A-coded to RJ45 (10 m) ∗

∗further cable lengths are available

280 | 320

90   135

100

150

Technical drawing

Reserve space above 70mm from top for tools and wiring.

142.4

260.3

Technical data

Optimal scanning range	300 mm (+/- 20 mm)
Min. FOV	135 x 90 mm @ 0.28 m
Max. FOV	150 x 100 mm @ 0.32 m
Resolution	2,048 x 1,536 px (3.0 MP)
Sensor type	CMOS (Monochrome)
Projector	Structured light (LED)
Z Repeatability	2.6 μm @ 0.3 m (point) / 0.09 μm @ 0.3 m (region)
VDI/VDE* accuracy	0.03 mm @ 0.3 m
Typical capture time	0.6 - 0.9 s
Baseline	80 mm
Dimension	260 x 65 x 142 mm
Weight	1.9 kg
Working temperature	0 - 45 °C (max. gradient 10°/hour)
Interface	GigE , C++, C#, Python, ROS
Connectors	M12, 8-pin, A-coded (F) - Data
	M12, 4-pin, A-coded (F) - Power
Power supply	24V DC / 3.75A
Certification	CE/FCC/VCCI
Protection class	IP65
Cooling	Passive

* Refering to VDI/VDE 2643 Part II

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