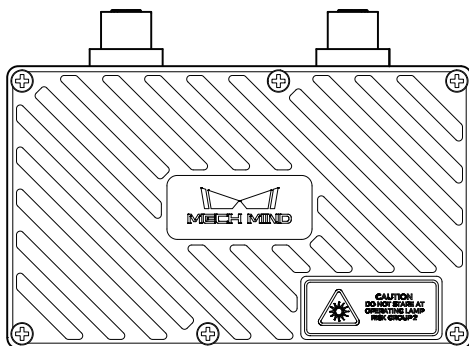


Mech-Eye Industrial 3D Camera

Technical Specifications

NANO ULTRA V1.1



Specifications

Product name	Mech-Eye Industrial 3D Camera	
Model	NANO ULTRA	
Object focal distance	350 mm	700 mm
Recommended working distance ^[1]	250-500 mm	400-800 mm
FOV	220 × 165 mm @ 0.25 m	400 × 270 mm @ 0.4 m
	500 × 340 mm @ 0.5m	770 × 550 mm @ 0.8 m
Resolution	2400 × 1800	
Megapixels	4.3 MP	
Point Z-value repeatability (σ) ^[2]	0.045 mm @ 0.4 m	0.1 mm @ 0.6 m
Measurement accuracy (VDI/VDE) ^[3]	0.1 mm @ 0.4 m	0.1 mm @ 0.6 m
Weight	0.7 kg	
Baseline	86 mm	
Dimensions	125 × 46 × 76 mm	
Typical capture time	0.5-0.9 s	
2D image color	Monochrome	
Light source	Blue LED (440 nm, RG2)	
Operating temperature	0-45°C	
Communication interface	Gigabit Ethernet	
Input ^[4]	24 V --- 3.75 A	
Safety and EMC	CE / FCC / VCCI / KC / ISED / NRTL	
IP rating ^[5]	IP65	
Cooling	Passive	

[1] The camera is available in two object focal distances, each corresponding to a different range of recommended working distance.

[2] One standard deviation of 100 Z-value measurements of the same point. Measurement target was a ceramic plate.

[3] According to VDI/VDE 2634 Part II.

[4] --- :Direct current.

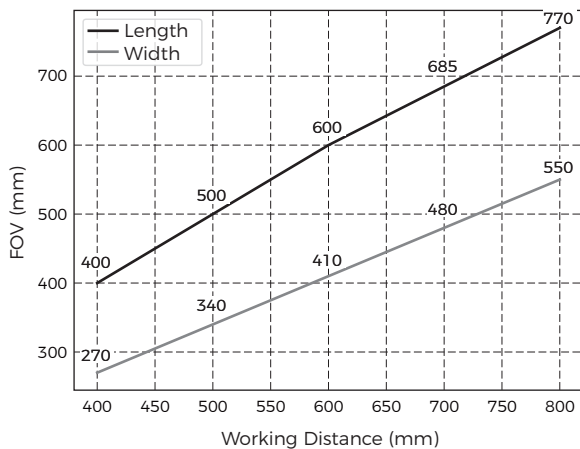
[5] Test implemented based on IEC 60529. 6: dust-tight; 5: protected against water jets.

FOV

Object Focal Distance: 350 mm

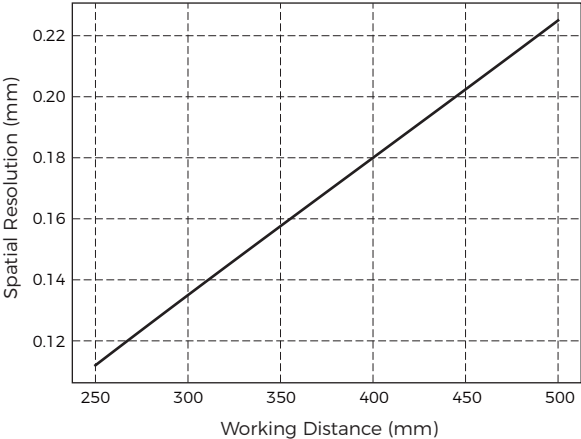


Object Focal Distance: 700 mm

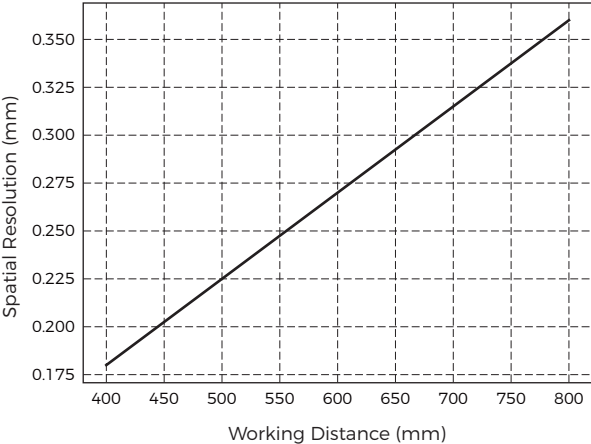


Spatial Resolution

Object Focal Distance: 350 mm

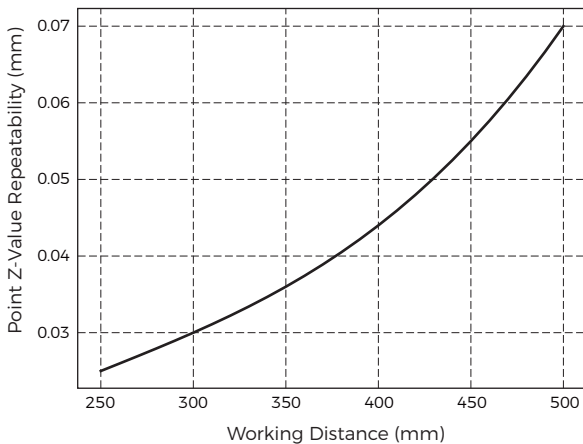


Object Focal Distance: 700 mm

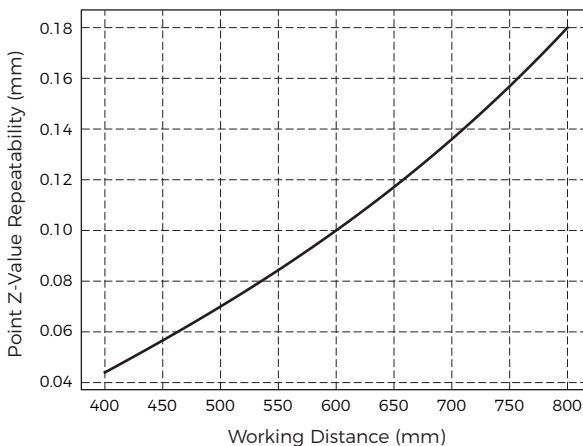


Point Z-Value Repeatability

Object Focal Distance: 350 mm

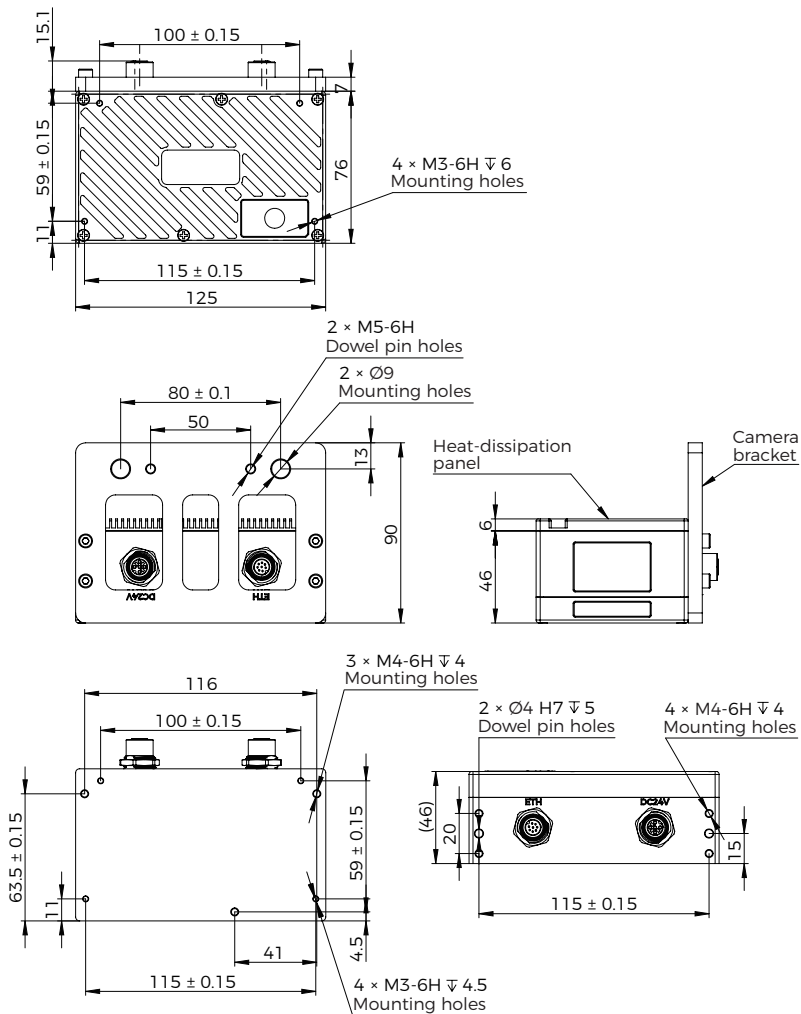


Object Focal Distance: 700 mm



Dimensions

Unit: mm



* Without the camera bracket and heat-dissipation panel

Certifications



Hereby [Mech-Mind Robotics Technologies Ltd.] declares that [NANO ULTRA] is in compliance with the Electromagnetic Compatibility Directive 2014/30/EU.

The full text of the EU Declaration of Conformity is available at:
<https://www.mech-mind.com/download/camera-information.html>



R-R-viz-MM010