

Nano-Z

The Nano-Z Super Depth-of-Focus Microscope is a versatile inspection system designed for PCB inspection, medical devices, biopharmaceuticals, customs and forensic inspection, and material defect detection. With advanced depth-of-focus capabilities, Nano-Z clearly reveals microstructures, surface details, textures, and height variations. It enables multi-angle observation and three-dimensional analysis for accurate and detailed sample inspection.



Scan QR for Video

Click on link for Video

or

<https://khushent.com/wq2LNnhMog0>

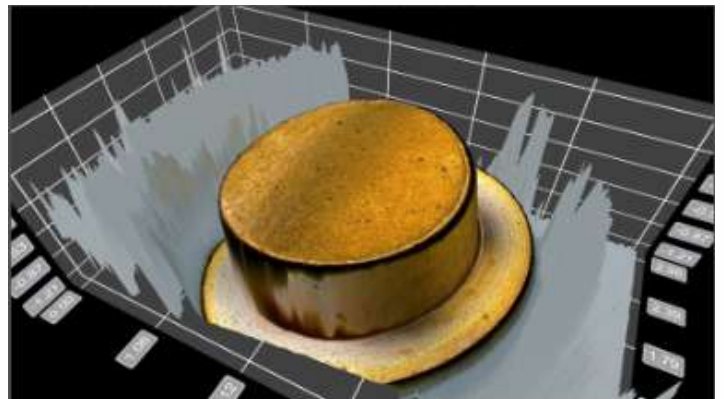
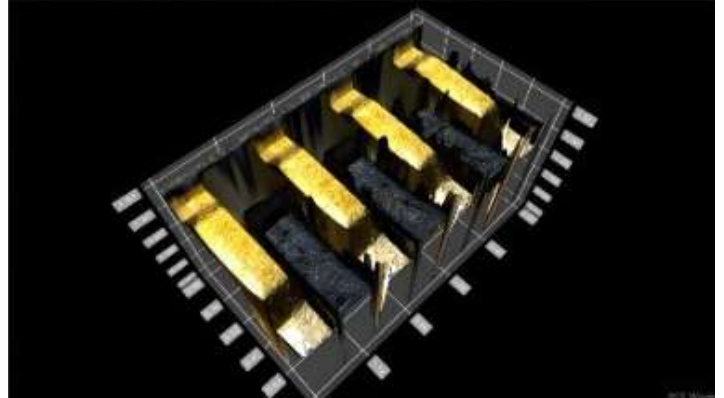


Optikē
by Khush

2D Surface



3D Surface



Areas of Applications

- PCB & Electronics Inspection
- Medical Devices & Micro Components
- Precision Machined Components
- Automotive Parts
- Research & Quality Control
- Micro-Feature Analysis
- Defect Detection
- Fracture & Wear Analysis
- Incoming Goods Inspection

Specifications

Category	Parameter	Specification
CAMERA SPECIFICATIONS	Sensor	1/1.8" 8MP (3840×2160)
	Frame Rate	30fps
	Resolution	1920×1080
OPTICAL PARAMETERS	Magnification	30×–6000×
	Lighting Options	Transmitting Light / Coaxial Light / Ring Light
	Zoom	Yes, Manual
	Focus	Manual/Automatic
	Z-axis Stroke	40mm
	Motor Control Accuracy	0.3μm
	Linear Scale Accuracy	1μm
OBJECTIVE LENS	Low Magnification	2×
	High Magnification	5×, 10×, 20×, 50×
MEASUREMENT FUNCTIONS	2D Measurement	Distance/Angle/Radius/Area
	3D Measurement	Yes
	Report Generation in Excel	Yes
CAMERA FEATURES	Brightness	Manual
	Colour	Level 1 – 100
	Sharpening	Level 1 – 100
	Contrast	Level 1 – 100
	HDR	Level 1 – 3
	3D Display	Yes
WORKING ENVIRONMENT	Operating Temperature	0–48°C
	Operating Humidity	20 to 80% RH
	Input Power	24V/6A