

helihspect 42 8x

Industrial WLI

For applications where conventional sensors reach their limits, the heliInspect[™] H8 and H8M excel with true sub-micrometer height resolution. The unmatched performance of these industry grade White-Light-Interferometers are based on Heliotis next generation 3D-pixel sensor heliSens[™] S4 and S4M.

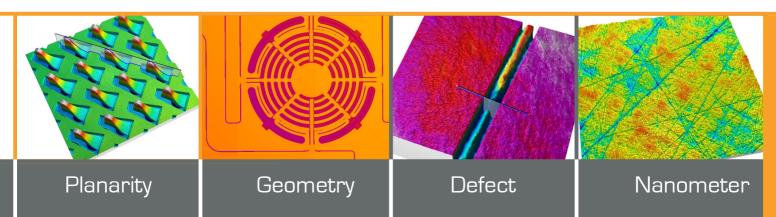
advancing 3D metrology

Measurement capability extended

- Height measurements with true submicrometer accuracy
- Unprecedented measurement speed
- Higher resolution in x, y at given FOV
- Highest intra-scene dynamic range
- Large set of optical magnifications

Integration as easy as a 2D camera

- Standard Gen<i>CAM interface
- On-camera services for standard tasks
- No need for an external scanner
- Multiple mounting options
- Interchangeable interferometer modules



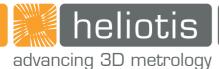
Specifications for H8 / H8M



heliInspect™ H8-M	Key Features
Measurement principle	White-Light Interferometer (industrial grade WLI)
Sensor	Heliotis lock-in imager <mark>hel</mark> iSens™ S4∕S4M, in-pixel signal processing
Camera board	FPGA based high-speed board, SOC, Linux OS, high-level interface through embedded <mark>heli</mark> Service™
Light source	High-power LED, I _c = 630 nm
Scanner	Linear motor, precision guides, stroke = 40 mm, standard resolution = 20 nm, ultra resolution = 1 nm
Interfaces	Gen <i>Cam / GigE, GlO, power (24V)</i>
Software	heliSDK™ for C++, C#, Halcon, Matrox, LabVIEW, Python

heliOptics™ WLI8		2 x	4 x	8 x	10 x	20 x	50 x	100 x	
Field of view [mm ²]		6.5 x 6.1	3.3 x 3.1	1.6 x 1.5	1.3 x 1.2	0.65 x 0. 61	0. 26 x 0.25	0.13 x 0.12	
Optical H8 resolution [µm] H8M		12	6	3	2.4	1.2	0.48	0.24(*)	
		H8M	6	3	1.5	1.2	0.6	0.24(*)	0.12(*)
Working distance [mm]	Michel	son	43.0	42.9	12.8				
	Nikon Mirau					7.4	4.7	3.4	2.0
	Leica Mirau					3.6	3.6	2.5	n. a.
Numerical aperture		0.1	0.15	0.25	0.3	0.4	0.5	0.7	

(*) pixel resolution



For more information please contact sales@heliotis.ch Heliotis AG|Längenbold 5|CH-6037 Root / Lucerne| Switzerland