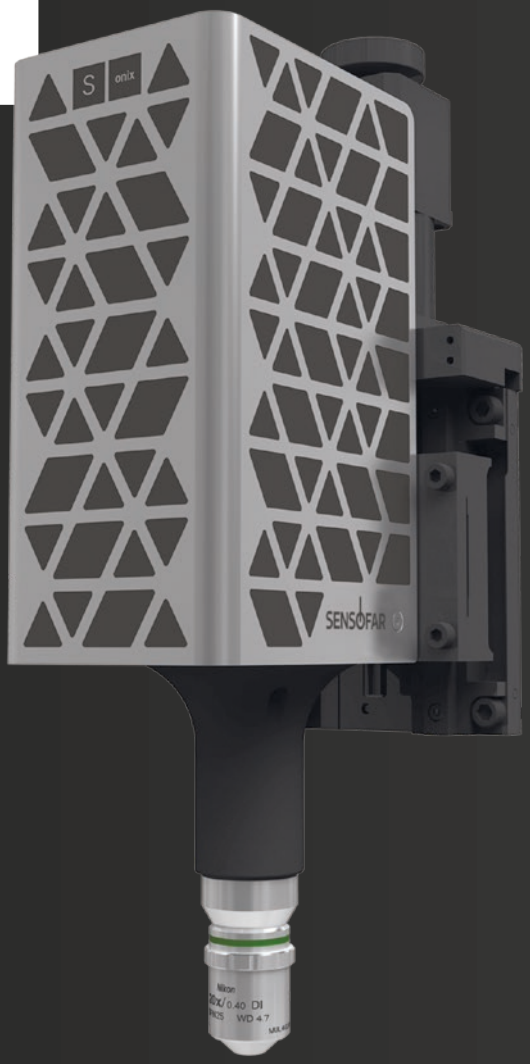
Unprecedented speed

The **S onix** provides the speed needed for a high-throughput industrial metrology system. With its high-speed camera and optimized optical and mechanical design, the **S onix** represents our fastest interferometric system. Measurement noise is maintained with the added bonus of improved resistance against vibration.

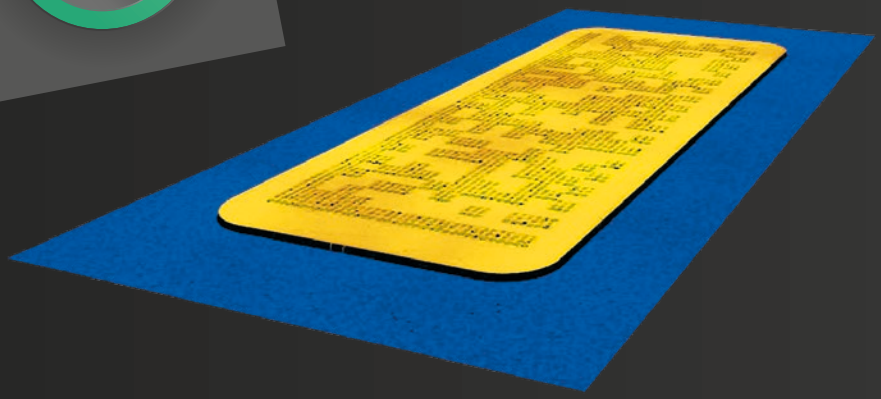


X9
Faster
interferometer

Resistance to
vibration

Compact design

AUTOMATIC 3D



Objective lenses

Interferometric

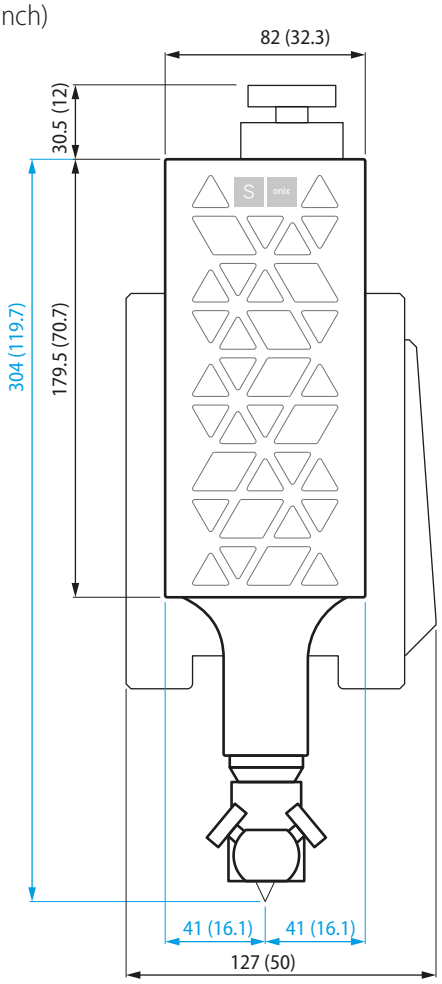
Magnification	2.5X	5X	10X	20X	50X	100X
NA	0.075	0.13	0.30	0.40	0.55	0.70
WD (mm)	10.3	9.3	7.4	4.7	3.4	2.0
FOV[1] (µm)	5040 x 3780	2520 x 1890	1260 x 945	630 x 472	252 x 189	126 x 94
Spatial sampling[2] (µm)	7.88	3.94	1.97	0.98	0.39	0.19
Optical resolution[3] (µm)	7.62	3.81	1.91	0.95	0.38	0.23
Measurement noise[4] (nm)	1					
Maximum slope[5] (º)	3	8	14	21	25	42

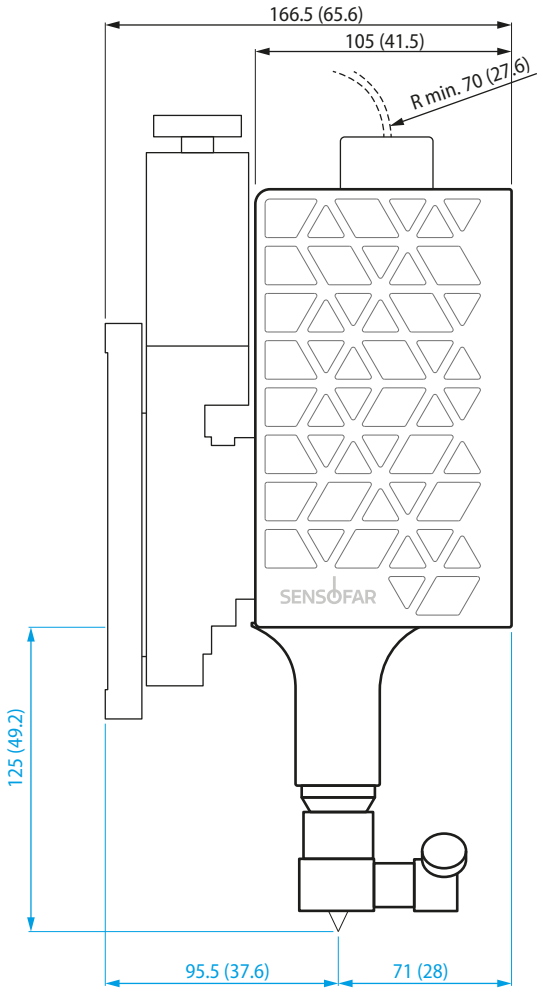
System specifications

Measuring principle	CSI
Measurement types	Image, 3D and 3D thickness
Camera	0.3 Mpx: 640 x 480 px (350 fps)
Vertical scan range	Linear stage: 40 mm range; 2 nm resolution
Max. Z measuring range	7 mm
LED light sources	White (575 nm; center) and green (532 nm)
Nosepiece	1 position (default) or 6 manual positions (optional)
Sample reflectivity	0.05 % to 100%
Advanced Software Analysis	Inc: SensoVIEW; Op: SensoPRO, SensoMAP
Communication protocol	DLL; XML (optional)
Computer	Latest INTEL processor
Operating system	Microsoft Windows 10®, 64 bit
Cable Length	5, 15 or 20 m
Environment	Temperature 10 ºC to 35 ºC; Humidity <80 % RH; Altitude <2000 m

Dimensions mm (inch)

Weight 3.6 kg (7.9 lbs)





Head dimensions

Working distances

1 Maximum field of view with 1/3" camera and 0.375X optics. **2** Pixel size on the surface. **3** L&S: Line and Space, half of the diffraction limit according to the Rayleigh criterion. Values for green LED. Spatial sampling could limit the optical resolution. **4** Measurement noise measured as the difference between two consecutive measurements of a calibration mirror placed perpendicular to the optical axis. Values obtained in a VC-E vibration environment. **5** On smooth surfaces.