Extreme Versatility



with high performance



4-in-1 technologies
Ai Focus Variation | Confocal
Interferometry | SR

4 LEDs Red I Green I Blue I White

The **S neox** pushes versatility to the extreme: with 4-in-1 technology, providing unparalleled adaptability for shifty application requirements and maximum measurement flexibility on any surface. The re-design of some algorithms has increased the speed and capability of all technologies. The option to add a piezoelectric Z motor makes the **S neox** our top performer. The **S neox** also covers thicknesses measurements from 50 nm to 5 mm.



X5 Speed thanks to new algorithms





Objective lenses

	Brightfield							Interferometry					
MAG	5X	10X	20X	50X	100X	150X	2.5X	5X	10X	20X	50X	100X	
NA	0.15	0.30	0.45	0.80	0.90	0.95	0.075	0.13	0.30	0.40	0.55	0.70	
WD (mm)	23.5	17.5	4.5	1.0	1.0	0.2	10.3	9.3	7.4	4.7	3.4	2.0	
FOV¹ (µm)	3378x2826	1689x1413	845x707	338x283	169x141	113x94	6756x5652	3378x2826	1689x1413	845x707	338x283	169x141	
Spatial sampling ² (µm)	1.38	0.69	0.34	0.13	0.07	0.05	2.76	1.38	0.69	0.34	0.13	0.07	
Optical resolution³ (µm)	0.94	0.47	0.31	0.18	0.16	0.148	1.87	1.08	0.47	0.35	0.26	0.20	
System noise ⁴ (nm)	100	30	8	5	3	1		PSI/ePSI	0.1 nm (0.01	nm with PZT)	CSI 1 nm		
Maximum slope ⁵ (°)	9	17	27	44	64	72	4	7	17	24	33	44	

System specifications

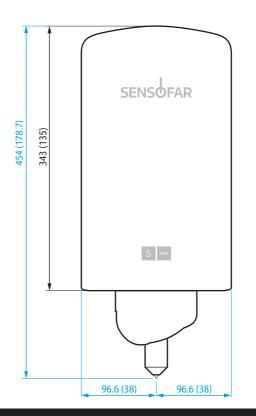
Measuring principle	Confocal, PSI, ePSI, CSI, Ai Focus Variation and Thin Film
Measurement types	Image, 3D, 3D thickness, profile and coordinates
Camera	5Mpx: 2448x2048 pixels (60 fps)
Confocal frame rate	60 fps (5Mpx); 180 fps (1.2 Mpx)
Vertical scan range coarse	Linear stage: 40 mm range; 5 nm resolution
Vertical scan range fine	Piezoelectric scanner with capacitive sensor: $200\mu m$ range; 1.25 nm resolution
Max. Z measuring range	PSI 20 μm; CSI 10 mm; Confocal & Ai Focus Variation 34 mm
LED light sources	Red (630 nm); green (530 nm); blue (460 nm) and white (575 nm; center)
Nosepiece	6 position fully motorized

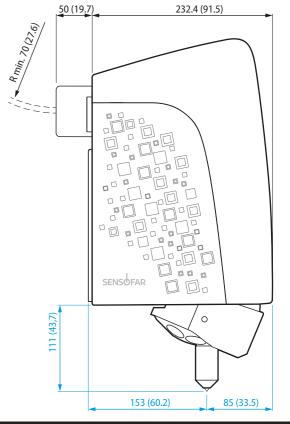
Sample reflectivity	0.05 % to 100%
Advanced Software Analysis	Inc: SensoVIEW; Op: SensoPRO, SensoMAP
Software communication	DLL (C++ or C#, Windows 10® - 64 bits) XML (any operating system)
Computer	Latest INTEL processor
Operating system	Microsoft Windows 10®, 64 bit
Cable Length	5 or 10 m
Environment	Temperature 10 °C to 35 °C; Humidity <80 % RH; Altitude <2000 m

Dimensions

 mm

Weight: 10.1 Kg (22.2 lbs)





Head dimensions Working distances