



PHASICS
the phase control company

SID4-UHR

WAVE FRONT SENSOR

SID4-UHR Ultra-High-Resolution wavefront sensor is adapted for optics metrology needs. It combines the SID4 ease of implementation with high sampling and resolution. Its large aperture allows to get a live wavefront measurement over the complete sample under test. The SID4-UHR is optimized for **surface inspection** (roughness, high frequency defects detection...) and **optical components characterization** (lens, objective, aspherical and freeform optics...).

Built with a high-performance camera it provides incredible precision for laser characterization. The 512 x 512 (option 666 x 666) phase map sampling with such compactness make the SID4-UHR a unique tool for optics and laser metrology in both research and industry fields.

KEY FEATURES



High Resolution
666 x 666



High Dynamic
range



Large analysis
pupil



Instantaneous measure
on large Field



Optimal signal
to noise ratio



Compactness for
easy implementation

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APPLICATIONS

- 1 Large aperture laser characterization
- 2 Optical components characterization
- 3 Surfaces inspection

SPECIFICATIONS

Wavelength range	400 - 1100 nm
Aperture dimension	15 x 15 mm ²
Spatial resolution	29.6 μm (option 22.2 μm)
Phase and intensity Sampling	512 x 512 (option 666 x 666)
Accuracy (Absolute mode)	15 nm RMS
Phase resolution	2 nm RMS
Frame rate	8 fps
Real-time processing frequency ⁽¹⁾	1 Hz (full resolution)
Interface	Giga Ethernet
Dimensions (W X H X L)	60 x 60 x 70 mm
Weight	~ 450 g

(1) Using the computer provided by PHASICS on SID4 Software