

Phasics is innovating by proposing the first off-the-shelf vacuum compatible wavefront sensor on the market.

SID4 ν is designed to perform wavefront measurements under high vacuum. The wavefront measurement is realized in-situ in the same conditions as the experiment. With Phasics' unique strategy for **adaptive optics**(1) it is now possible to correct the aberrations of every single optical element up to the target location inside the vacuum chamber.

It is also used to characterize laser beams after compression inside the compressor vessel.

Finally, gas jet and plasma density⁽²⁾ are now measured as close to the target as possible.

DESIGNED FOR VACUUM DOWN TO 10-6 mbar NO CONTAMINATION IN THE VACUUM CHAMBER

J. SPECIFICATIONS

Vacuum compatibilty	>10 ⁻⁶ mbar
Wavelength range	400 - 1100 nm
Aperture dimensions	4.73 x 3.55 mm ²
Maximum NA*	0.2
Spatial resolution	29.6 μm
Phase and intensity Sampling	160 x 120
Accuracy	15 nm RMS
Resolution (Phase)	2 nm RMS
Acquisition rate	60 fps
Real-time processing frequency	7 Hz (full resolution)
Dimensions (WxHxL)	54 x 46 x 75.3 mm
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KEY FEATURES

- Low outgassing
- Invariant to thermal and mechanical vacuum constraints
- Tolerates vacuum-cycles without any performance decrease
- Both functional under vacuum and atmospheric pressure
- Diverging beam compatible
- High resolution 160 x 120 phase pixels
- Large spectral acceptance
- Interface Giga Ethernet
- MTBF > 10 years
- Compactness

Distribution in the UK & Ireland www.lambdaphoto.co.uk

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