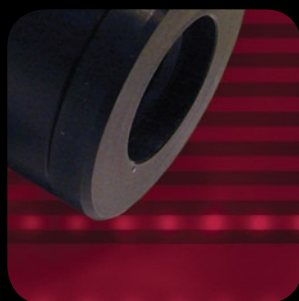


HASO³TM

NIR



Imagine OpticTM

HASO³™

NIR



Our HASO NIR Shack-Hartmann wavefront sensor is the ideal tool for customers working in the near infrared spectrum (1500 - 1600 nm). Exceptionally easy to integrate, they provide fast, accurate and reliable measurements by taking advantage of the HASO family's standard functionalities that customers have come to rely on, including absolute measurement, unequalled accuracy and insensitivity to vibration at speeds up to 60 Hz.

HASO NIR is the ideal tool for fiber coupling and, more generally, for aligning and characterize optical systems in the NIR (afocal, collimators, lenses, zoom, etc.). When coupled with our HASOv3 software, it enables you to perform both zonal and modal wavefront reconstruction; calculate the PSF*, MTF* and Strehl ratio*; visualize the spot diagram; and obtain the M²* parameter.

Aperture dimension	3.6 x 4.6 mm ²
Number of microlenses	32 x 40
Tilt dynamic range	> ± 3 °
Focus dynamic range ¹	± 0.012 m to ± ∞
Maximum operating aperture (half angle sinα)	0.17 (max)
Repeatability (rms)	< λ/70
Wavefront measurement accuracy in absolute mode (rms) ²	~ λ/35
Wavefront measurement accuracy in relative mode (rms) ³	~ λ/50
Tilt measurement sensitivity (rms)	15 μrad
Focus measurement sensitivity (rms)	15.10 ⁻³ m ⁻¹
Spatial resolution	~ 115 μm
Maximum acquisition frequency	60 Hz
Working wavelength range	1500 - 1600 nm
Working temperature	15 - 30° C / 5 - 45° C
Dimensions / weight	30 x 35 x 54 mm / 150 g
Power supply	12 V / 2 W
Interface	Firewire

All specifications given with an average operating mode of 10 acquisitions. (1) Central wavelengths: 120 λ. (2) Wavefront directly measurement by the wavefront sensor (no added lens). (3) Difference between a referenced wavefront and the measured wavefront, in a range < 10 λ.

To learn more and to find a distributor near you, please visit imagine-optic.com or call +33 (0)1 64 86 15 60.



imagine-optic.com