

# LIP™

LIP is an easy to use optical system that transforms your HASO3 wavefront sensor into a portable, stand-alone metrology solution. Comprised of a collimator, an interchangeable focusing objective and our Laser Diode, LIP allows you to augment the measurement abilities of our HASO3 product line. With LIP, you can easily characterize large-diameter concave mirrors as well as align large collimators and telescopes.

LIP functions with the ensemble of the HASO3 family of wavefront sensors thereby enabling users to work with sources ranging from visible light to NIR and with a wide range of spatial resolutions. Even more, and in contrast to standard interferometers, LIP is insensitive to vibrations and enables users to perform precision metrology in the presence of turbulence along the optical.

Custom objectives are equally available for customers with unique needs.

If you would like more information, please call +33 (0)1 64 86 15 60 or visit [imagine-optic.com](http://imagine-optic.com).





LIP 32 for HASO-32	Objective f/# <sup>1</sup>	focal length (mm)
MOD32-3.7	3.7	18
MOD32-4	4	20
MOD32-6.4	6.4	31
MOD32-7.5	7.5	36
MOD32-10	10	45
MOD32-12.5	12.5	60
MOD32-16	16	80
MOD32-24	24	118.3
MOD32-30	30	149

LIP 76 for HASO-76	Objective f/# <sup>2</sup>	focal length (mm)
MOD76-3.4	3.4	30
MOD76-8.7	8.7	75
MOD76-9.2	9.2	82
MOD76-13.4	13.4	115
MOD76-17	17	146

LIP 128 for HASO-128	Objective f/# <sup>3</sup>	focal length (mm)
MOD128-2.1	2.1	30
MOD128-5.1	5.1	75
MOD128-5.6	5.6	82
MOD128-7.9	7.9	115
MOD128-10	10	146



LIP is delivered with our Laser Diode and connects easily to your HASO for out-of-the-box results

1) Assuming 4.9mm pupil diameter.  
 2) Assuming 8.9mm pupil diameter.  
 3) Assuming 14.6mm pupil diameter.