

PHASICS
the phase control company

R-Cube

ILLUMINATION MODULE FOR SID4

The R-Cube is an integrated **illumination module** for **double-pass** measurement with PHASICS SID4 wavefront sensors. This compact and easy-to-use add-on device delivers a **high quality collimated beam** (optional lenses can convert to a diverging beam) and directly connects to the SID4. Embedding **all the advantages of PHASICS patented technology,** this simple set-up is used for **alignment of complex optical systems**, measurement of **large flat or curved mirrors,** and **characterization of lens assemblies**.

KEY FEATURES

Accuracy
< 20 nm RMS

Resolution
< 2 nm RMS

Insensitive
to vibration

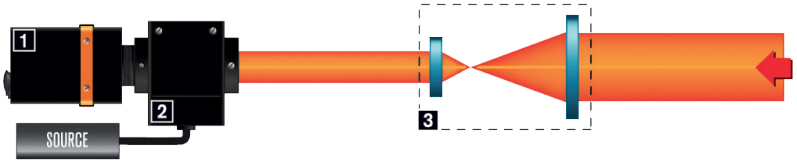
Small footprint

Source wavelength
customized on demand

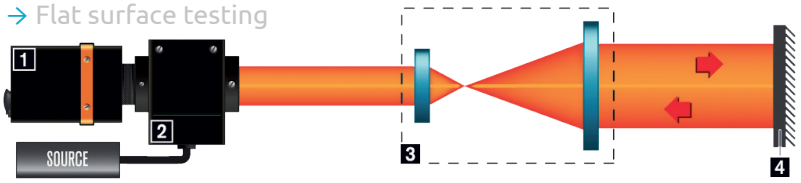
Compatible with
translation & Tip/Tilt
stages for alignment

R-Cube APPLICATIONS

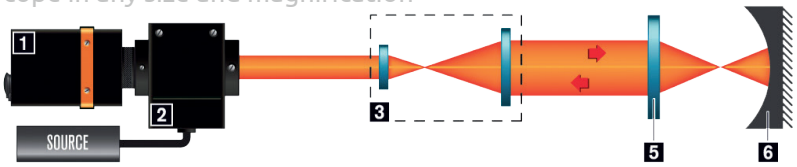
→ Automated removal of telescope aberrations in the analysis arm of adaptive optics loop



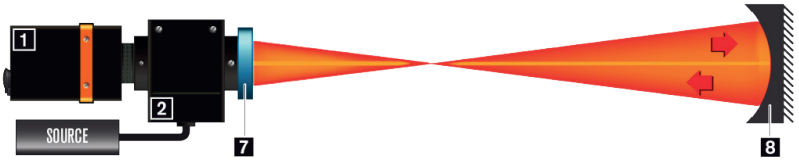
→ Flat surface testing



→ Optics quality control in double-pass: lens, objective, telescope in any size and magnification



→ Concave mirror measurement



1 *SID4 wavefront sensor*
2 *R-Cube*
3 *Telescope / Beam expander*
4 *Surface under test*
5 *Optics under test*
6 *Reference mirror*
7 *Objective (C-mount)*
8 *Mirror under test*

SPECIFICATIONS

Compatibility	SID4 UV / SID4 / SID4 HR / SID4 SWIR / SID4 SWIR HR / SID4 DWIR
Beam diameter	Adapted to related wavefront sensor pupil
Source wavelength	365 / 405 / 530 / 625 / 740 / 780 / 810 / 850 940/ 1050/ 1550/ 3900 nm
Double-pass reference mirror quality	λ/20 PV (632.8 nm)
Phase resolution (noise)	< 2 nm RMS

PHASICS
the phase control company

PHASICS S.A.
Bâtiment Explorer - Espace Technologique
Route de l'Orme des Merisiers
91190 Saint-Aubin
FRANCE
Tel : +33(0)1 80 75 06 33

PHASICS CORP.
1023 Walnut Street
Suite 100
Boulder CO 80302
USA
Tel : +1 415 610 9741

武汉莱速科技有限公司
www.laspeed.cn info@laspeed.cn 13545051195

This document is not contractual- 2022-07