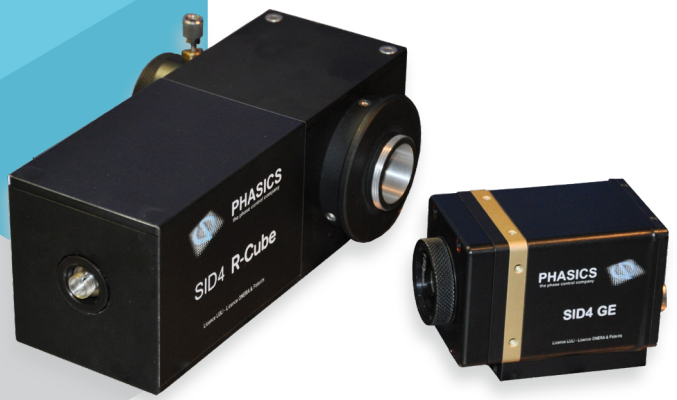


PHASICS
the phase control company

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

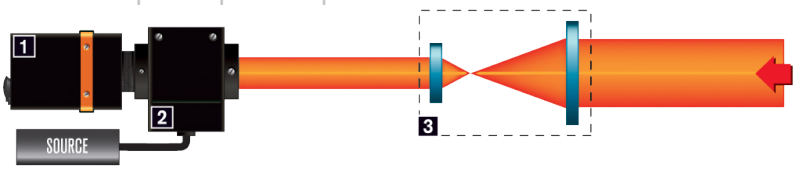
Small footprint

Source wavelength
customized on demand

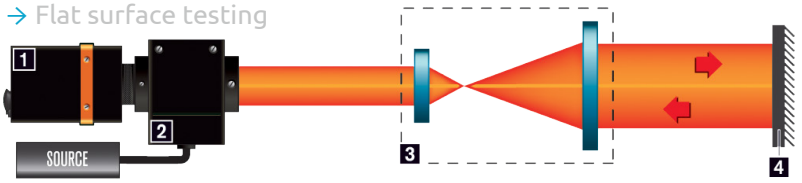
Compatible with
translation & Tip/Tilt
stages for alignment

R-Cube APPLICATIONS

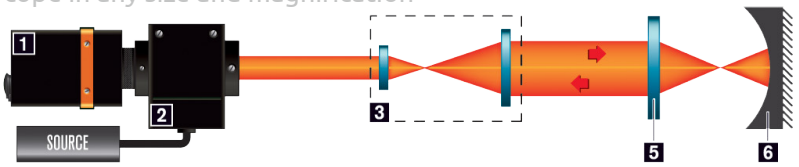
→ Automated removal of telescope aberrations in the analysis arm of adaptive optics loop



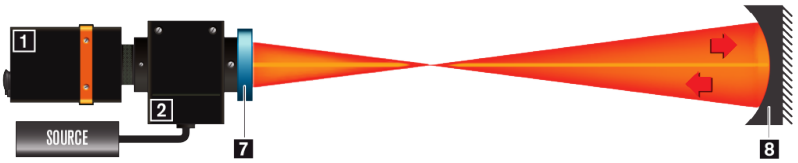
→ Flat surface testing



→ 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, SID4 HR or SWIR
Beam diameter	Adapted to related wavefront sensor pupil
Source wavelength	635, 780, 808, 1064, 1550 or 1650 nm
Beam quality	< 20nm RMS (635-808 nm) < 30nm RMS (1064-1650 nm)
Double-pass reference mirror quality	λ/20 PV (633 nm)
Phase resolution (noise)	< 2 nm RMS

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