

## **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



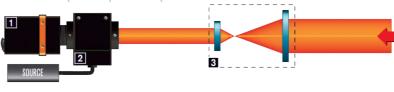
Small footprint



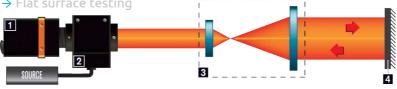
Source wavelength customized on demand



Compatible with translation & Tip/Tilt stages for alignment

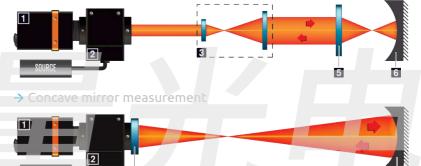


→ Flat surface testing



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

- 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

This document is not contractual