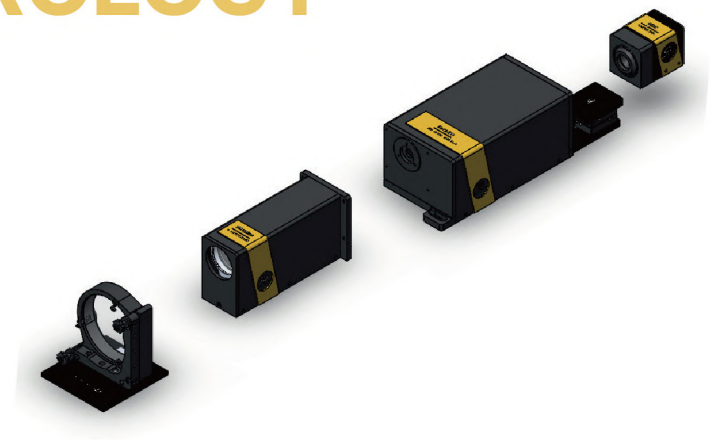
Phasics
The phase control company

Kaleo Kit

Fully Modular Metrology Solution From UV to IR

phasics.com

ASSEMBLE YOUR OWN MODULAR METROLOGY SYSTEM...



With the rise in complexity of optical systems, metrology teams often need **specific measurement parameters** (test wavelength, accuracy resolution, relevant outcomes...). PHASICS answers this challenge with **Kaleo Kit**, its modular system for optics qualification.

Kaleo Kit is the combination of a broad range of compatible modules, that let you create a **cost-effective, compact, and easy-to-use system** that can adapt to a wide range of measurement configurations and ensure the quality of your sample at all development stages.

Access all the characteristics of your sample in a **single shot acquisition**: TWE, RWE, wavefront aberrations, MTF, PSF, and a lot more!

VERSATILE

- Available from Deep UV to LWIR
- Modules compatible with stand-alone use
- All measurement configurations: finite-finite, infinite-finite...
- Same modules fit for different setups

POWERFUL UNIQUE TECHNOLOGY

- High resolution
- Dedicated to large aberrations measurement
- Achrormatic measurement: for any test wavelength
- Nanometric sensitivity

EASY-TO-USE

- Compact
- Designed for easy alignment
- Quick access to all results

FOR AFOCAL SYSTEMS (I)...

Measurement of Small Aperture Optics (< 8mm) Transmitted Wavefront Error (TWE)

REFERENCE SETUP

MEASUREMENT SETUP

Measurement of Small Aperture Optics (< 8mm) Reflected Wavefront Error (RWE)

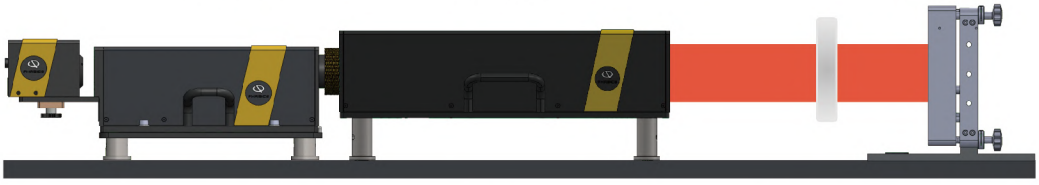
REFERENCE SETUP

MEASUREMENT SETUP

Measurement of Large Aperture Optics (up to 130mm) Transmitted Wavefront Error (TWE)

REFERENCE SETUP

MEASUREMENT SETUP



FOR AFOCAL SYSTEMS (II)...

Measurement of Large Aperture (up to 130mm) Reflected Wavefront Error (RWE)

REFERENCE SETUP

MEASUREMENT SETUP

Measurement of Transmitted Wavefront Error (TWE) for Small Telescope Systems

REFERENCE SETUP

MEASUREMENT SETUP

Measurement of Transmitted Wavefront Error (TWE) for Large Telescope Systems

REFERENCE SETUP

MEASUREMENT SETUP

FOR FOCUSING SYSTEMS (I)...

Measurement of of Transmitted Wavefront Error (TWE) for Small Infinite/Finite Systems

REFERENCE SETUP

Phasics WFS | Illumination Module | Reference Flat Mirror

MEASUREMENT SETUP

Phasics WFS | Illumination Module | Telescope Under Test(Small) | Reference Concave Mirror

Measurement of Transmitted Wavefront Error (TWE) for Large Infinite/Finite Systems 1

REFERENCE SETUP

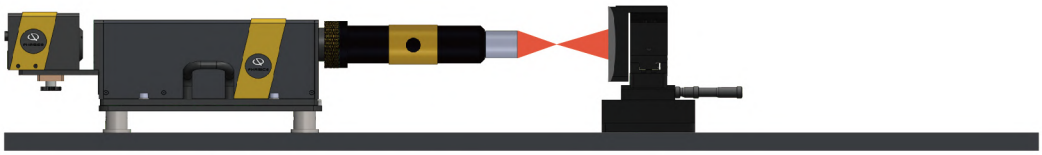
Phasics WFS | Illumination Module | Beam Expander | Reference Flat Mirror

MEASUREMENT SETUP

Phasics WFS | Illumination Module | Beam Expander | Lens Under Test(Large) | Reference Concave Mirror

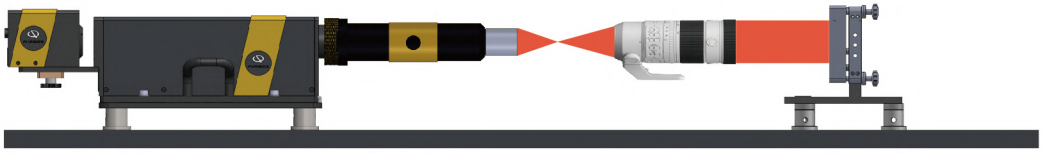
Measurement of Transmitted Wavefront Error (TWE) for Large Infinite/Finite Systems 2

REFERENCE SETUP



Phasics WFS | Illumination Module | Focusing System | Reference Concave Mirror

MEASUREMENT SETUP

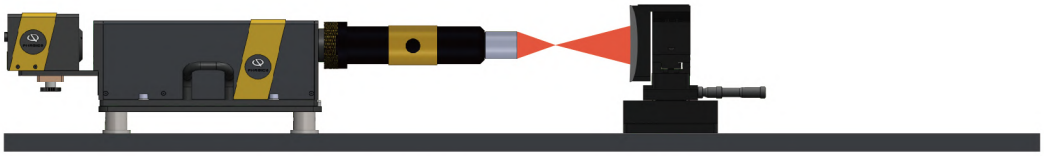


Phasics WFS | Illumination Module | Focusing System | Lens Under Test(Large) | Reference Flat Mirror

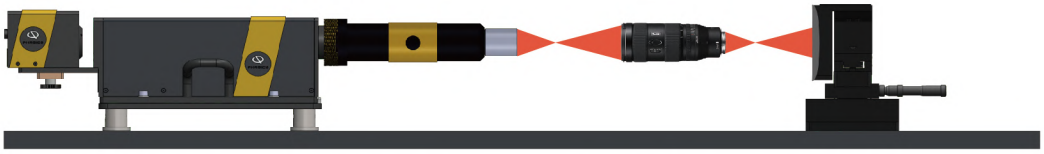
FOR FOCUSING SYSTEMS (II)...

Measurement of Transmitted Wavefront Error (TWE) for Finite to Finite Systems

REFERENCE SETUP

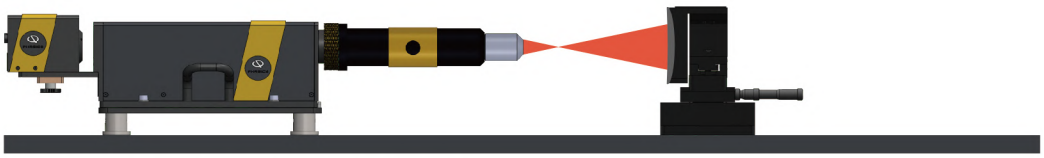


MEASUREMENT SETUP

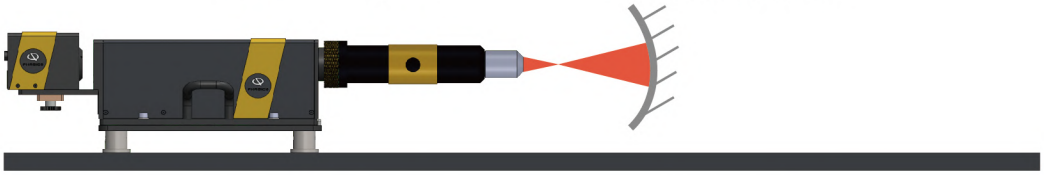


Measurement of Reflected Wavefront Error (RWE) for Concave Mirrors

REFERENCE SETUP

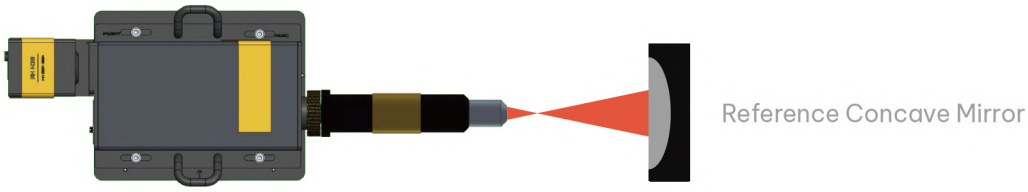


MEASUREMENT SETUP

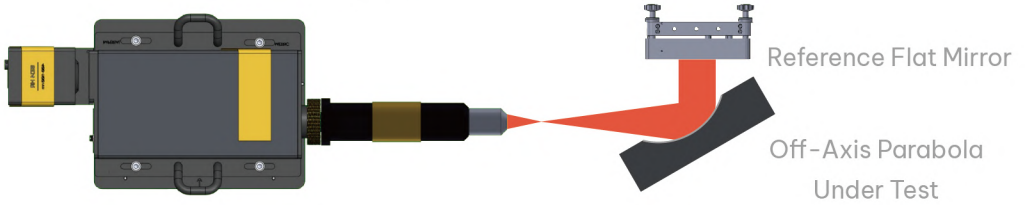


Measurement of Reflected Wavefront Error (RWE) for Off-Axis Parabolic Mirrors

REFERENCE SETUP



MEASUREMENT SETUP



... IN JUST 3 EASY STEPS

01 Choose Your Wavefront Sensor

SID4 model	Spectral Range(nm)	Sampling(px)
SID4 UV	190-400	300x300
SID4 UVHR	190-400	512x512
SID4	400-1100	182x136
SID4 HR	400-1100	416x360
SID4 UHR	400-1100	512x512
SID4 SWIR	900-1700	80x64
SID4 SWIR HR	900-1700	160x128
SID4 DWIR	3 - 5 µm / 8 - 14 µm	160x120

02 Select Your Illumination Module

Wavelength(nm) *	
193	810
265	840
365	950
405	1050
530	1550
620	3400
740	3900
780	8700

03 Shape Your Beam

Beam expander exit pupil diameter(mm) *	Focusing system F# *
15	0.7
30	1.2
60	3.3
100	5
130	9

+Reference mirror (flat or sphere)

*More options upon request

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