Wavefront sensors and adaptive optics for optical metrology, laser and microscopy

OPTICAL METROLOGY

HIGH-POWER LASERS

BIO-IMAGING

X-EUV


IMAGINE OPTIC
PRESENTS
New optical metrology system for plane parallel optics

Company · Key figures

Optical metrology solutions

The OEC
(The Optical Engineer Companion)

Modular system
for lab and R&D

MESO

Robust instrument
for industry and production

MESO · Unique Combination of features

+ Insensitive to vibrations

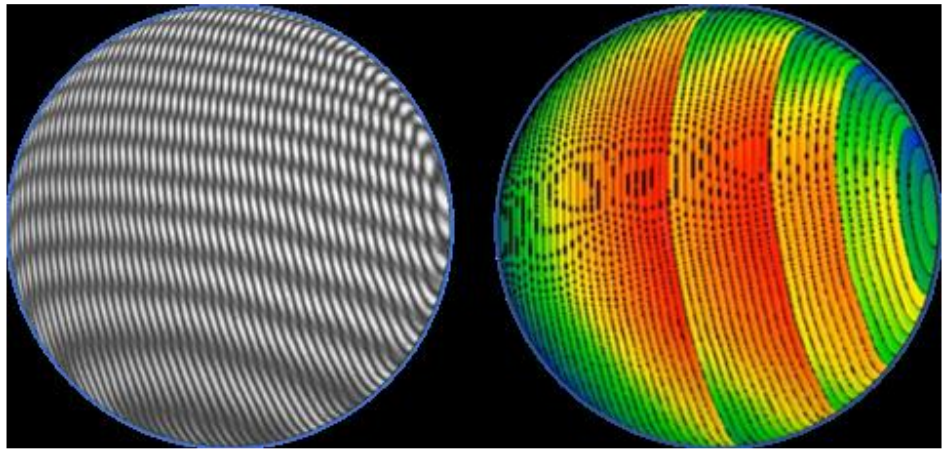
+ At design wavelength testing from 400 to 800

+ Test diameter from 1,5” up to 6”

+ Insensitive to reflections from sample back surface

MESO · POP

Std laser interferometer



- 3 beams interference produced by a plane parallel optics

MESO

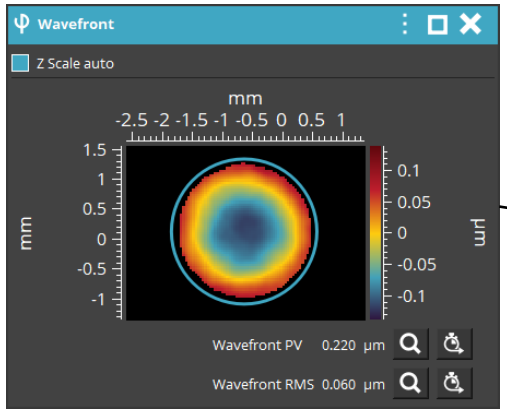
+ No need of coherent light to produce fringes

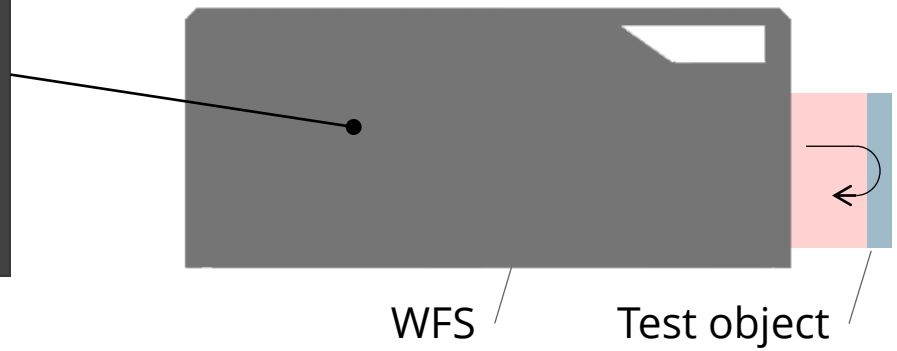
+ Take advantage of the reflected signal !

+ No sample surface preparation

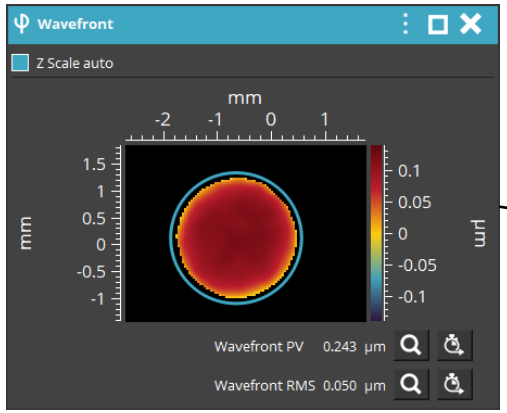
MESO · POP

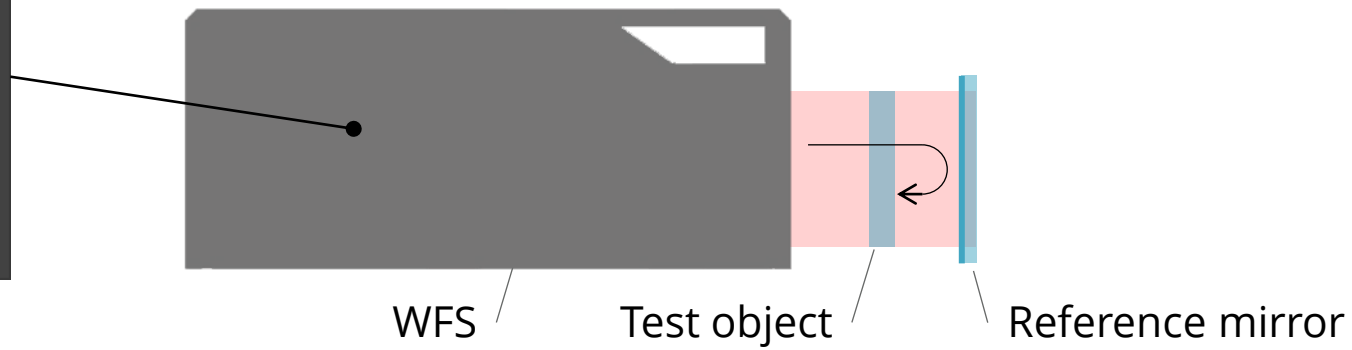
Step 1: reflection measurement





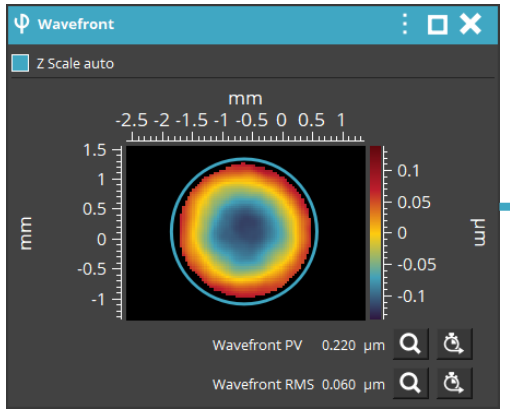
Step 2: transmission measurement



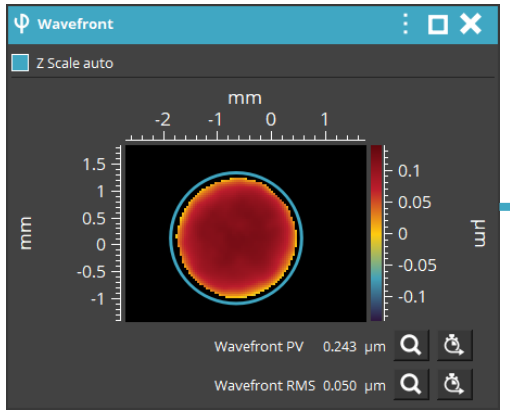


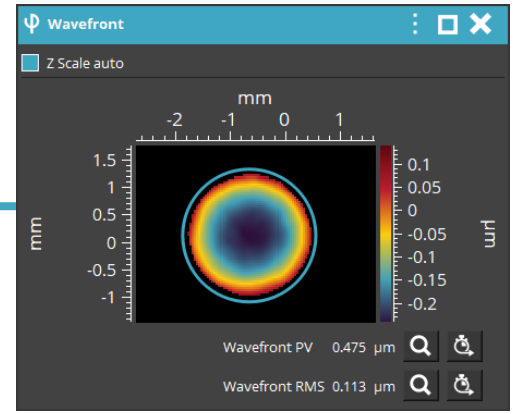
MESO · POP

Step 1: reflection measurement

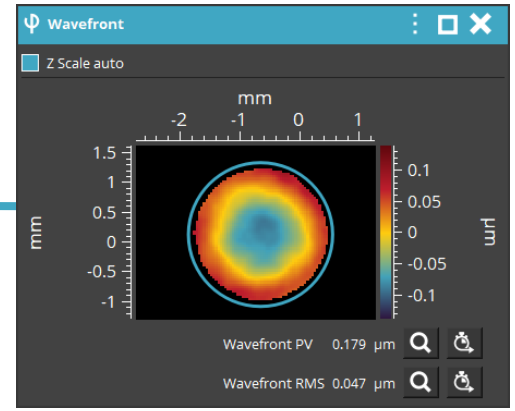


Step 2: transmission measurement

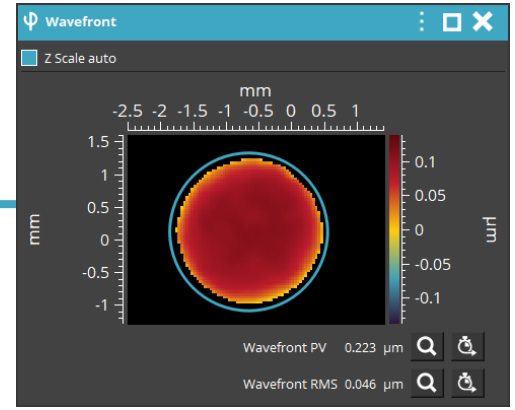




Front surface (RWE)



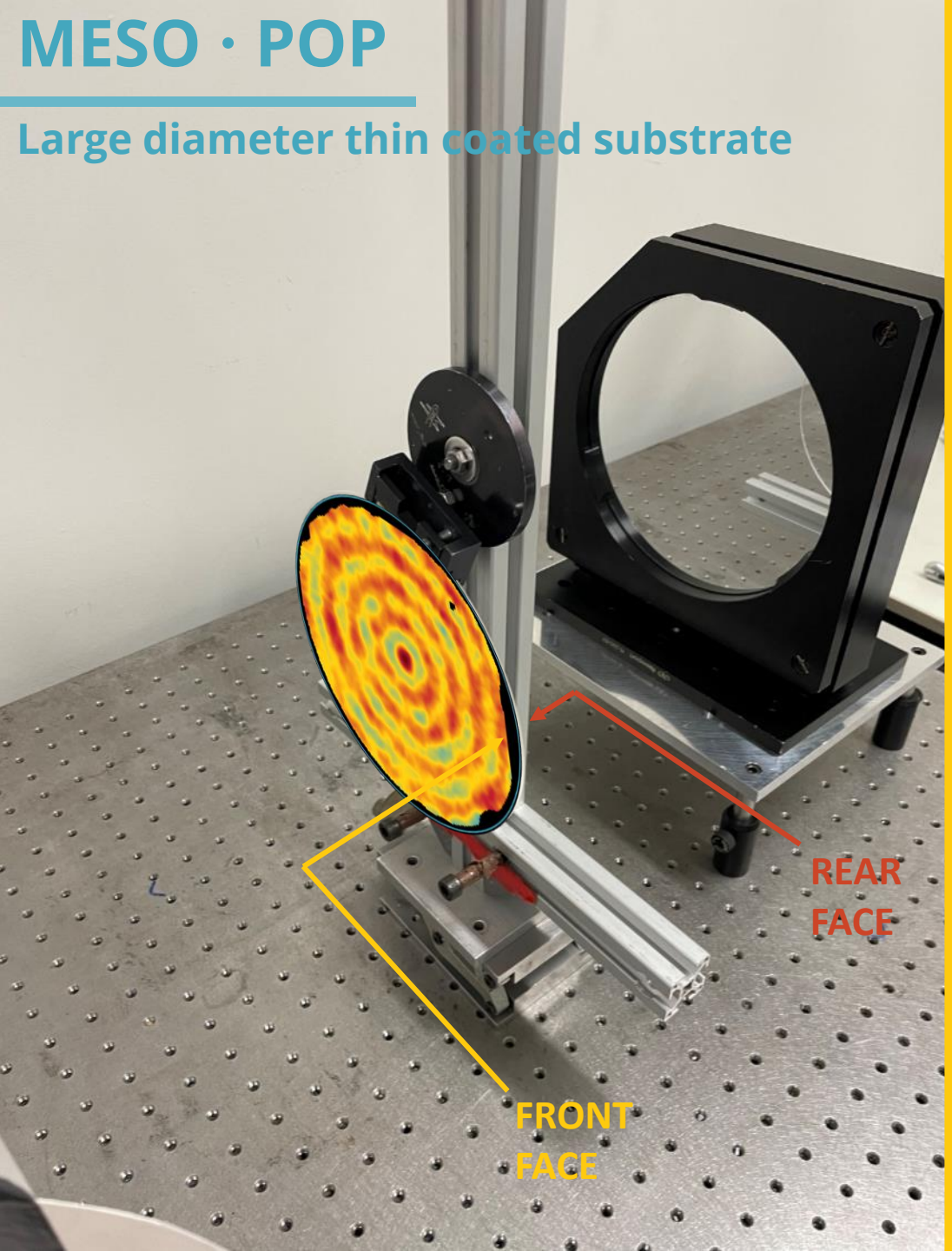
Rear surface (RWE)

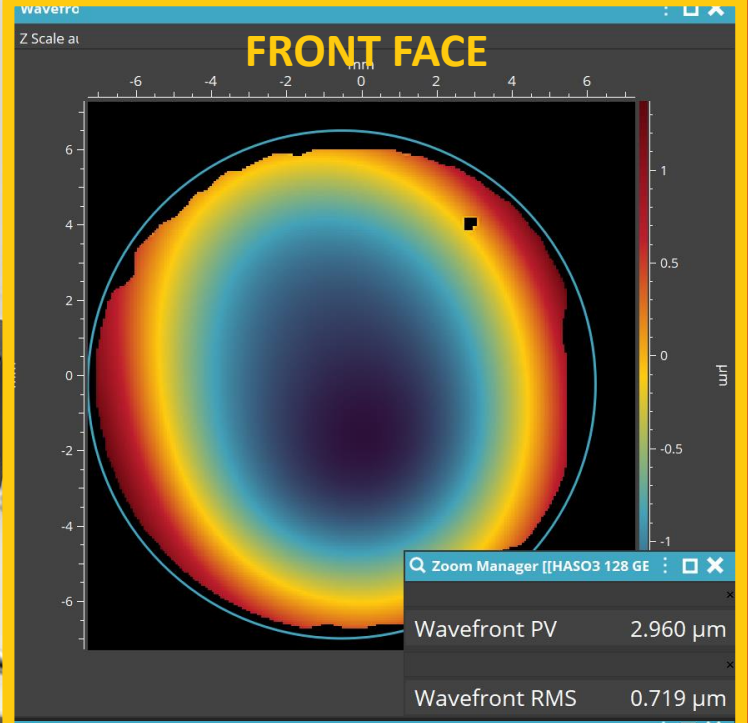


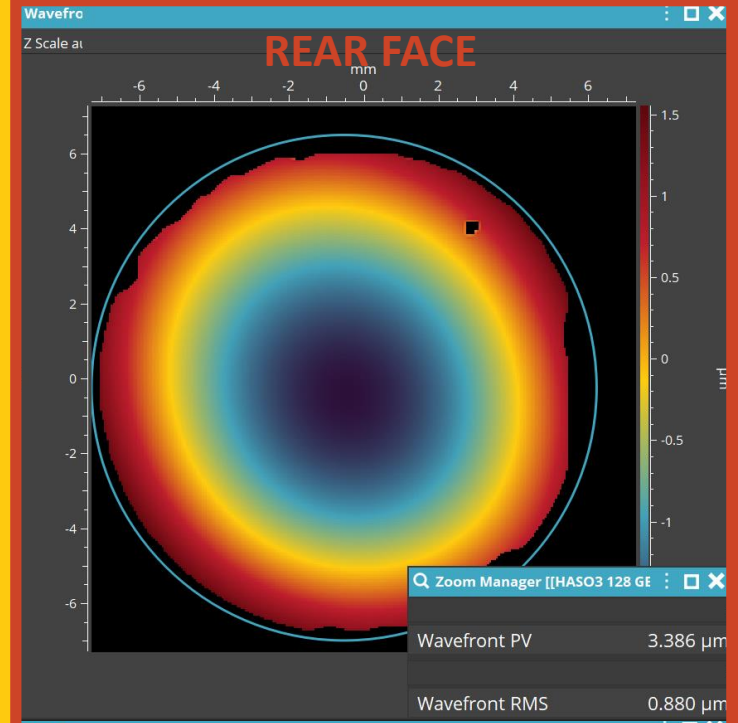
Transmitted wavefront (TWE)

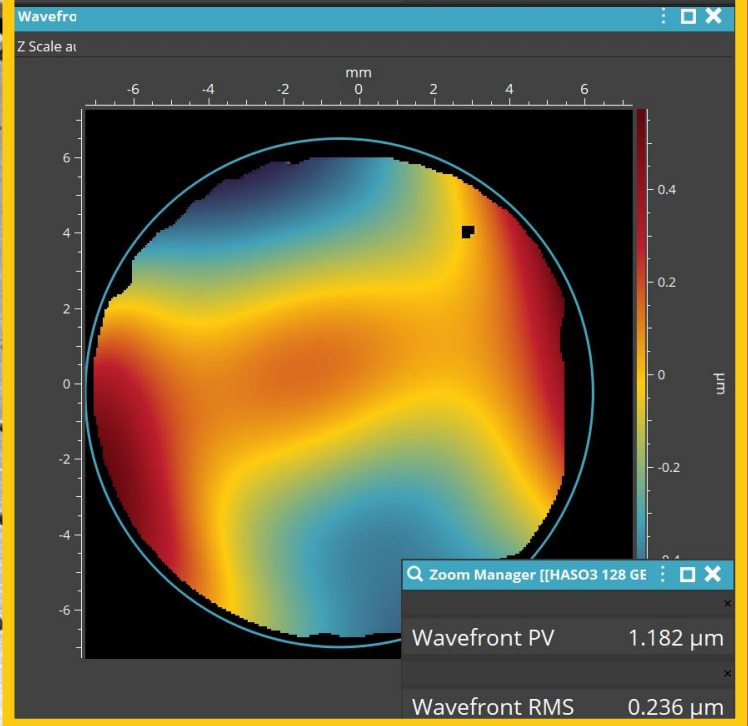
MESO · POP

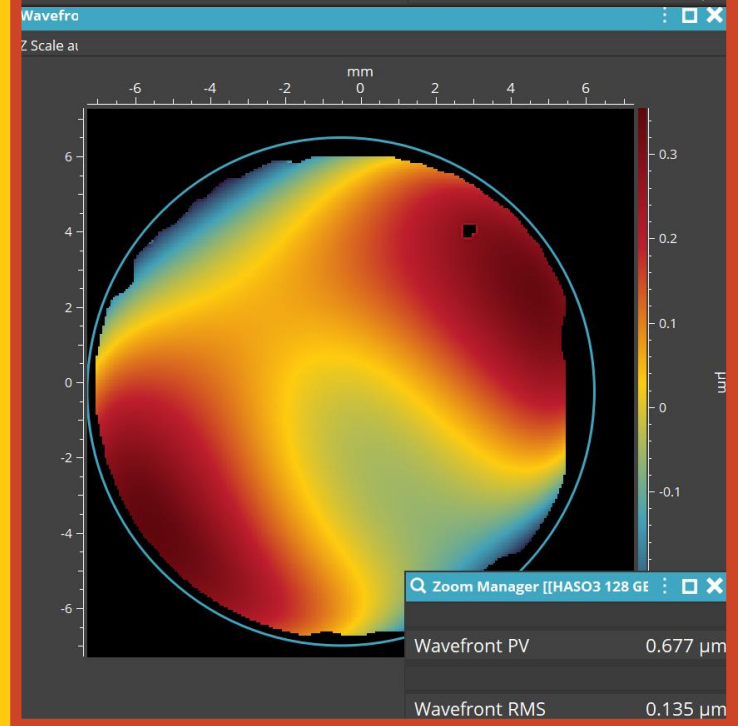
Large diameter thin coated substrate







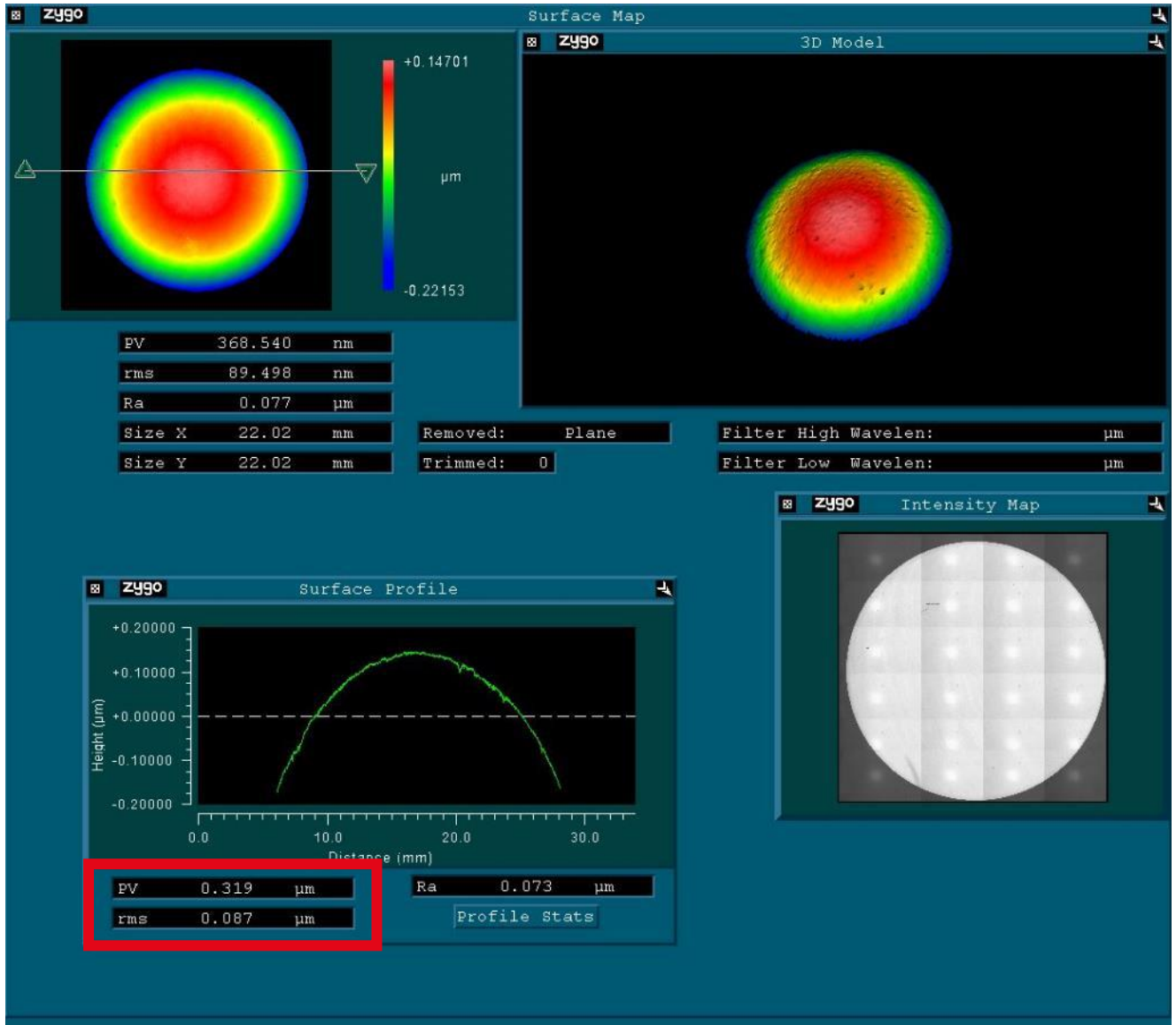




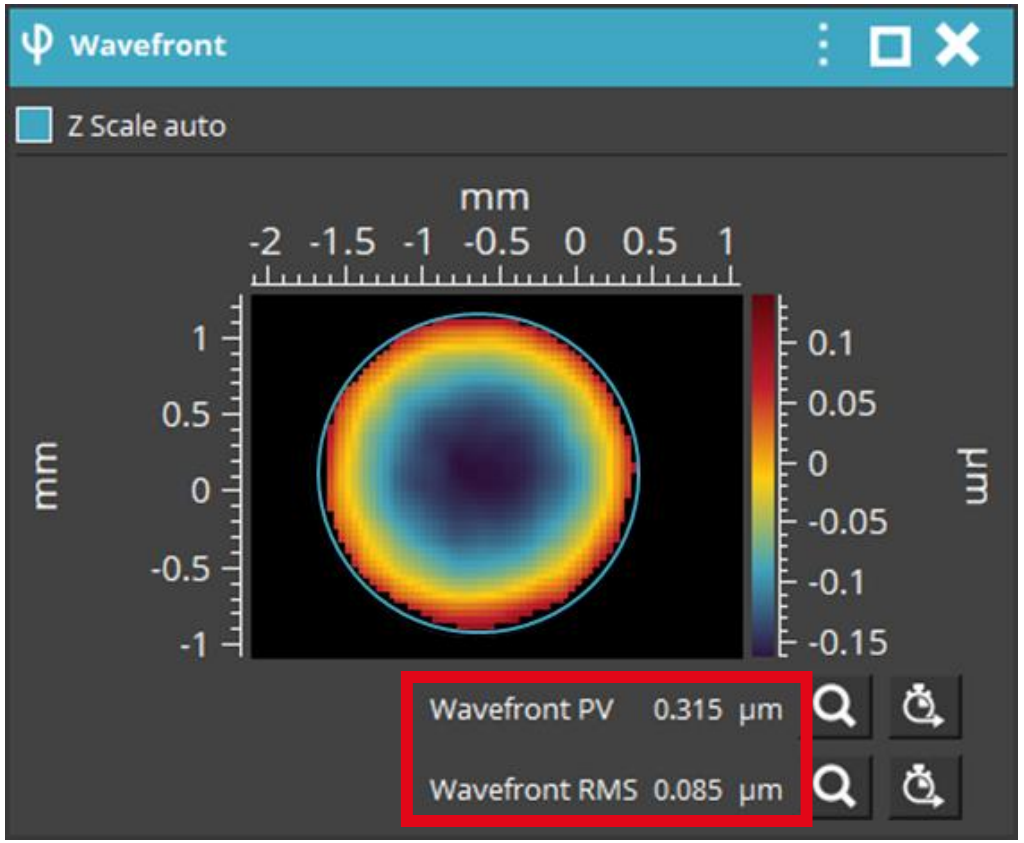
MESO · POP

Flatness of crystal face

White light 3D profilometer : 5 hours



MESO : 1 min.



Wrap up

Martial DESTOC
mdestoc@imagine-optic.com

Pleased to provide more information
Happy to perform **tests on your samples**