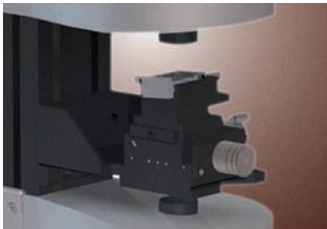
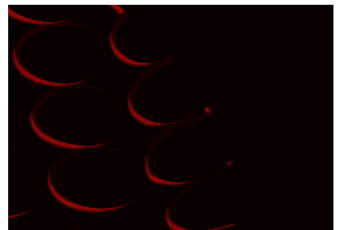
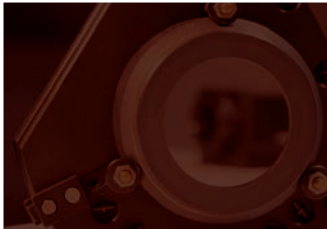
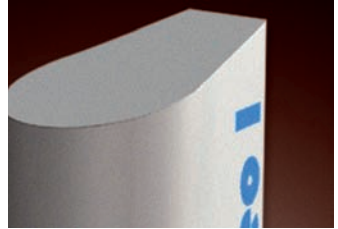
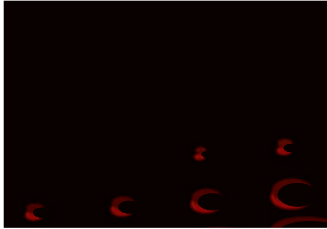


# Kaleo-i



**PHASICS**  
The phase control company

# Kaleo-i



Within a few seconds, most of the IOL parameters (including power diopter, power maps, MTF) are determined. The measurements are highly reproducible and accurate.

## "A COMPLETE, FAST AND ACCURATE IOL QUALITY CONTROL"

All measurements are according to ISO 11979-2 and ISO 11979-9 specifications.

You can obtain a GO/NO GO conformity report of your intraocular lenses. In addition, you understand why a lens got a NO GO measurement : aspherization error, surface defects...

**PHASICS** - The phase control company

**Kaleo-i** machine characterizes the optical quality of your intraocular lenses. It meets the need for ISO standard compliant measurements in production lines. It measures the MTF and diopter power of monofocal and multifocal intraocular lenses (IOL and MIOL).

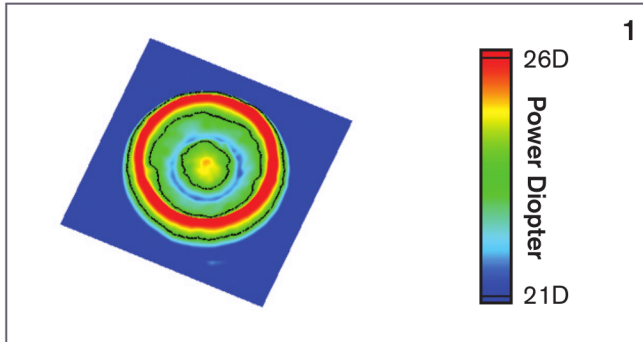
Taking benefit of PHASICS patented wavefront sensors\*, in-depth characterization of IOL and MIOL design is deduced from aberration maps : power maps, through focus MTF, all-azimuths (2D) MTF, surface inspection.

Only one instrument is needed to control the quality of monofocal and multifocal lenses in wet and dry conditions.

### → KEY FEATURES

- Wet and dry measurement
- Obtain all optical parameters at once : MTF(2D), PSF, power diopter, aberrations...
- No routine calibration necessary
- Simple and ergonomic user interface
- No axial adjustment necessary
- Cuvettes suitable for any IOL design included
- ISO standard summary and fully customizable report

# INTRAOCULAR LENSES QUALITY DIAGNOSIS



- 1- Power map
- 2- ISO 11979-9 measurement results
- 3- Through Focus MTF
- 4- Intraocular lens

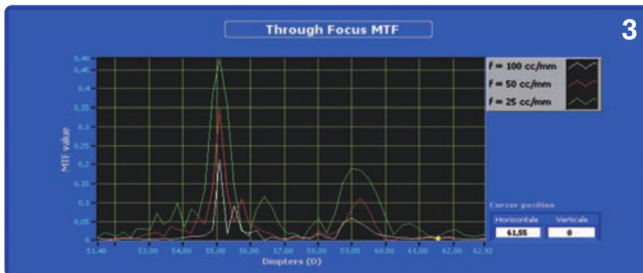
## → BENEFITS

- Unrivalled high resolution aberration maps (250 x 250)
- High reproducibility and accuracy
- One-shot measurement
- Operator-independent,
- Insensitive to vibrations : can be used in production environments
- Cost effective

ISO 11979-9 Appendix A.2a Appendix A.2b

2

	Far vision	Near vision
<b>Diopter Power (m-1)</b>	22,11	26,01
<b>Optical Quality: aperture=2,5mm</b>		
MTF@25 cc/mm	34,44	35,87
MTF@100 cc/mm	15,32	12,4
<b>Optical Quality: aperture=4,5mm</b>		
MTF@25 cc/mm	47,4	---
MTF@50 cc/mm	34,8	---

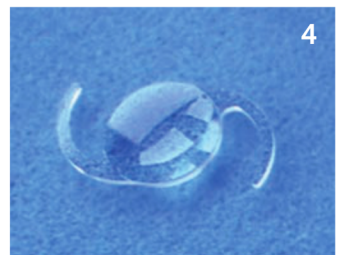


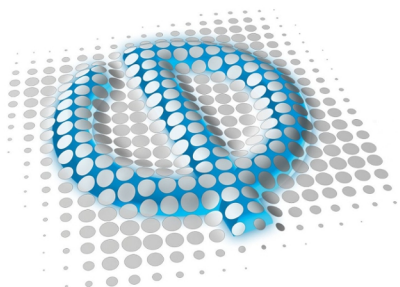
## ↓ APPLICATIONS

- Monofocal intraocular lenses (spherical, aspherical and toric)
- Multifocal intraocular lenses (spherical, aspherical and toric)
- Contact lenses (Option)
- Phakic lenses

## ↓ SPECIFICATIONS

<b>IOL Diameter</b>	Up to 6 mm
<b>Power range</b>	- 10 D to +40D
<b>Resolution (Aberrations)</b>	250 x 250 measurement points
<b>Power Repeatability (ISO 5725)</b>	< 0.05 D
<b>Power Reproducibility (ISO 5725)</b>	< 0.1 D
<b>MTF Repeatability (ISO 5725)</b>	< 1 %
<b>Measurement Time</b>	10 seconds (adjustment & measurement)
<b>Wavelength</b>	543 nm +/- 10 nm
<b>Dimensions (l x h x L)</b>	250 x 470 x 350 mm



**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.**

169, 11th Street  
San Francisco, CA 94103  
USA

Tel: +1 415 610 9741

**[www.phasics.fr](http://www.phasics.fr)**

**[contact@phasics.fr](mailto:contact@phasics.fr)**