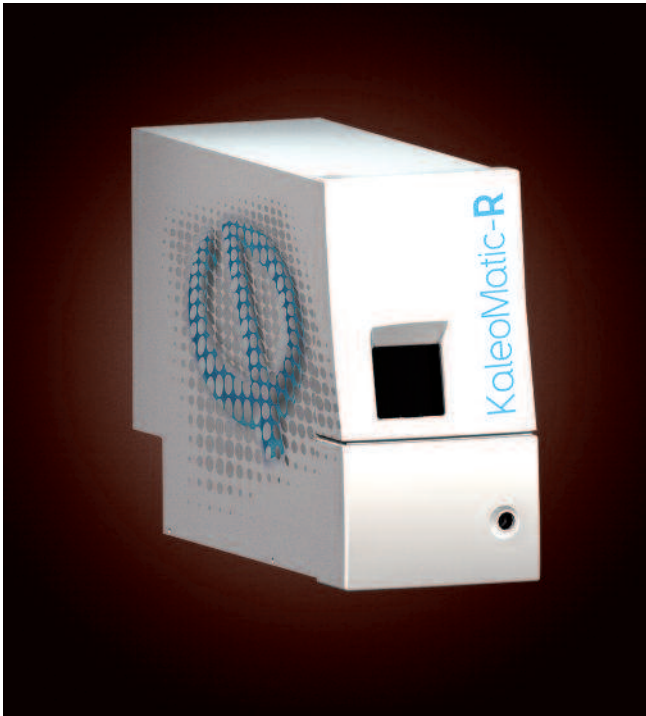


Kaleo-R



Kaleo-R is the solution for instantaneous, non-contact and precise 2D surface characterization. Within few seconds, the optics surface quality and its radius of curvature are determined.

"WHOLE SURFACE QUALITY DIAGNOSTIC IN ONE FAST NON-CONTACT MEASUREMENT"

Taking benefit of PHASICS patented wave front sensors and metrology techniques*, automatic measurements are highly reproducible and accurate.

PHASICS - The phase control company

Kaleo-R addresses the needs in R&D laboratories as well as in any production line.

Whether you would like to test manufactured optics or you are an integrator that wishes to test external supplier optics, with **Kaleo-R**, you will not need a specific optical laboratory to check the quality of a surface.

Within seconds, you can get a GO/NO GO conformity report of your lens surface quality. Aspherisation errors or defective mold are detected thanks to the comparison with the surface design.

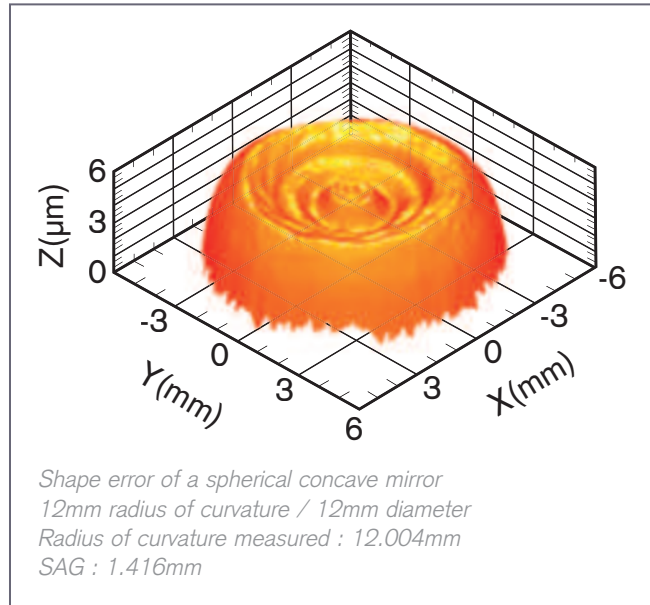
→ KEY FEATURES

- Computer-aided settings and alignment
- Surface characterization automatic measurement (RMS, PtV)
- Comparison with theoretical surface
- Radius of curvature automatic measurement
- Compliant ISO 10110 norm for optics drawing
- Customizable report
- Simple and ergonomics user interface

SURFACE QUALITY DIAGNOSTIC

→ BENEFITS

- Get the whole surface characterization instantaneously
- Non contact measurement
- High resolution 2D surface map
- High dynamic (up to 500 μm)
- No Computer Generated Hologram (CGH) needed
- Insensitive to vibrations : can be used in production environments
- Operator-independent



↓ SPECIFICATIONS

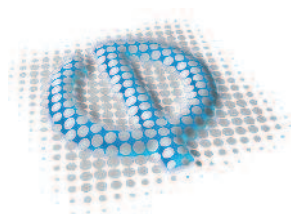
(FOR STANDARD KALEO-R SYSTEMS)

Kaleo-R systems available in manual or motorized version. For other range diameter and radius of curvature, please contact us.

Kaleo machine	Kaleo-R10	Kaleo-R50	Kaleo-R100
Diameter – Range (up to)	8 mm (CV) 50 mm (CC)	50 mm (CV) 50 mm (CC)	100 mm (CV) 100 mm (CC)
Radius of curvature – Range (up to)	50 mm (CV) 500 mm (CC)	170 mm (CV) 500 mm (CC)	330 mm (CV) 500 mm (CC)
Radius of curvature – Precision	< 5 μm	< 5 μm	< 5 μm
Surface quality – Precision	10 nm	10 nm	10 nm
Surface quality – Resolution	2 nm	2 nm	2 nm
Dynamic range (up to)	100 μm	500 μm	500 μm
Surface quality – Sampling (up to)	300 x 300 (90,000 pts)	300 x 300 (90,000 pts)	300 x 300 (90,000 pts)

→ APPLICATIONS

- Aspherical surface control quality
- Mold control
- Fast plastic lens control
- Plane surface control



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