



WOOPTIX

# SEBI<sup>®</sup>RT 1000

The highest resolution wavefront sensor

## Product



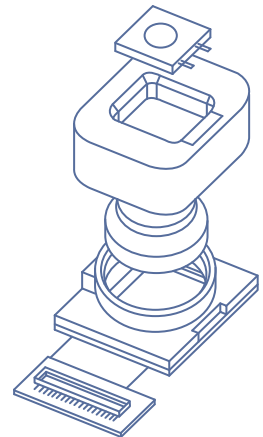
The SEBI® RT1000 introduces exceptionally high wavefront phase spatial sampling (1.000 x 1.000), a real time processing (30 FPS), and a wavefront accuracy ( $\lambda/30$  RMS) for the most demanding measurement tasks.

Wooptix SEBI® RT1000 is a small size implementation of the Wavefront Phase Imaging (WFPI) technology.

The wavefront sensor arrangement achieves high dynamic range.

It enables measurements within the nanometer and micrometer range.

SEBI® RT1000 increases the spacial resolution of the image.



## Technology

Wavefront Phase Imaging (WFPI) is a Wooptix patented technique, that recovers the wavefront phase of an incoming light beam. It uses imaging sensors placed at different positions along the propagation axis of the light.

Traslation movement



Full sensor resolution



Our proprietary algorithm computes the wavefront phase from out-of-focus images. A proper selection of the distance between images allows measurements within different frequency ranges

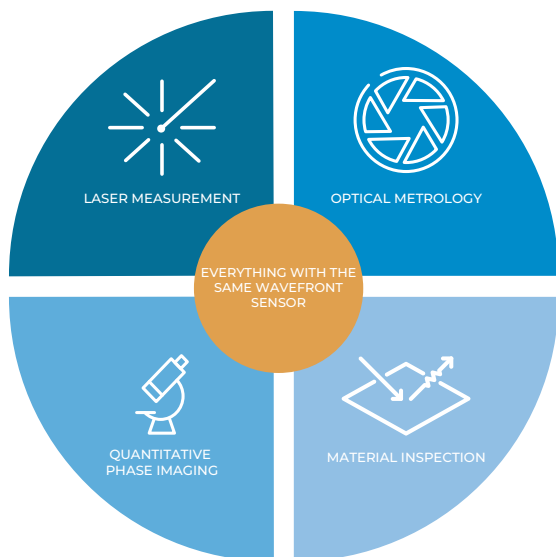
## New wavefront sensor

SEBI® RT1000 Wavefront Sensor in a nutshell



SEBI's aperture and sensitivity makes it ideal for direct measurements of large diverging beams without extra relay optics.

# Applications



## How it works?

SEBI® RT1000 allows images to be captured with exceptionally high wavefront phase sampling in real-time.

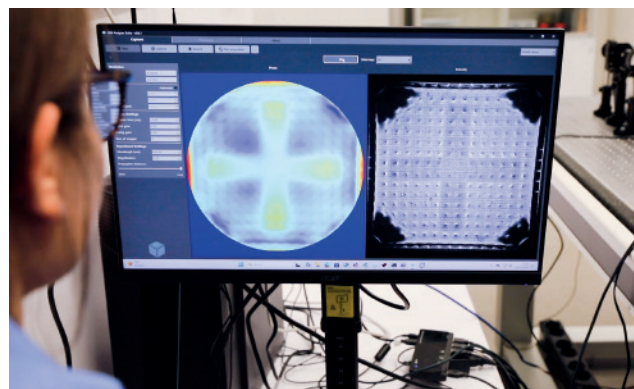
All images can then be managed using the SEBI® Analyzer Suite, which has a user interface fully adapted to the processes required.

Finally, the capture can be exported to video or image.

## SEBI® Analyzer Suite



The SEBI® Analyzer Suite (SEBI® AS) is designed to allow users to extract information and use it according to their application.



## Launch Kit includes

The SEBI® RT1000 Launch Kit provides the necessary resources to experiment with imaging systems based on phase technology:



SEBI® RT1000



SEBI® Analyzer Suite

**Discover how SEBI® RT1000 can transform your research**

**ORDER NOW**  
[sales@wooptix.com](mailto:sales@wooptix.com)





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## About Wooptix

Wooptix is a leader in semiconductor metrology using wavefront phase imaging, a technique derived from adaptative optics research in astronomy. With a multidisciplinary team, Wooptix aims to revolutionize the semiconductor metrology industry with the highest lateral resolution and fastest technique for online factory measurements.

The company has developed the SEBI® RT1000, a wavefront sensor that introduces exceptionally high wavefront phase spatial sampling (1.000 x 1.000), real time processing (30 FPS), and a wavefront accuracy ( $\lambda/30$  RMS) for the most demanding measurements tasks.

Wooptix has headquarters in Tenerife, Madrid (Spain) and San Francisco (USA).



[www.wooptix.com](http://www.wooptix.com)

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