



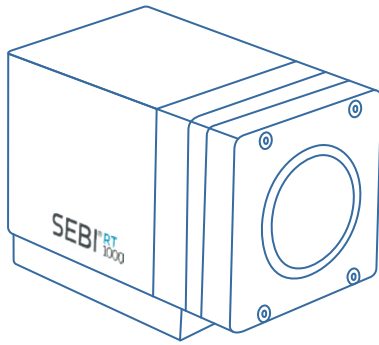
WOOPTIX

SEBI[®] RT 1000

The highest resolution wavefront
sensor Evaluation-KIT

www.wooptix.com

Product

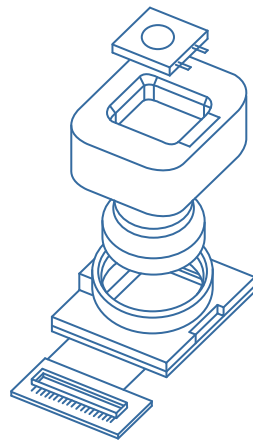


The SEBI® RT1000 introduces exceptionally high phase sampling (1.000 x 1.000), a real time processing (30 FPS), and an absolute Wavefront Accuracy ($\lambda/30$ RMS) for the most challenging measurement tasks.

Wooptix SEBI RT1000 is a small size implementation of the WFPI technology.

The camera arrangement achieves high dynamic range.

It allows measurements between nanometric and micrometric scales.



It increases the depth resolution of the image.

SEBI® RT1000 results in a substantially better visibility of important details.

Technology

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

Traslation movement



Full sensor resolution



WFPI principle: The proprietary algorithm calculates the wavefront phase in the middle plane between image positions.

A proper selection of the distance between images produces a result with a **lateral resolution equal to the pixel size of the imaging sensor**.

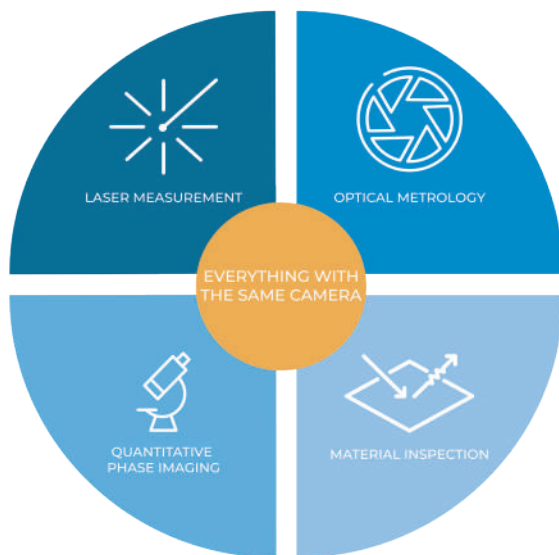
New wavefront sensor

SEBI® RT1000 Wavefront Sensor in a nutshell



RT1000's large aperture and extreme wavefront sensitivity makes it perfectly suited for direct measurements of large diverging beams without relay optics.

Uses cases



How it works?

SEBI® RT1000 allows capturing images with exceptionally high phase sampling in real-time processing

Then, all the images can be managed through the SEBI® Analyzer Suite, which has a UX fully adapted to the required processes.

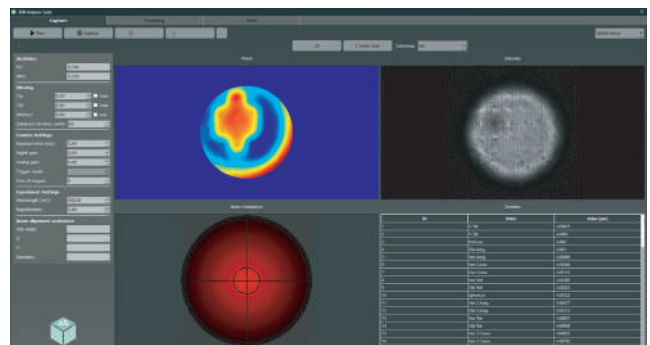
Finally, the capture can be exported to video or image.

SEBI® Analyzer Suite



The SEBI® Analyzer Suite (SEBI@AS) allows the researcher-scientist to extract information for several-different use cases.

This software is made to enable different researchers to play around their needs, being able to customize it for your best use case scenario.



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WOOPTIX

About Wooptix

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

The company has developed SEBI® RT1000, a wavefront phase camera that introduces exceptionally high phase sampling (1.000 x 1.000), a real time processing (30 FPS), and an absolute Wavefront Accuracy ($\lambda/30$ RMS) for the most challenging measurement tasks.

Wooptix is headquartered in Tenerife, Madrid (Spain), and San Francisco (USA).

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More information
sales@wooptix.com