



ZEISS O-DETECT Optical Measuring Machine Owner's Manual

[Home](#) » [Zeiss](#) » ZEISS O-DETECT Optical Measuring Machine Owner's Manual 

Contents

- 1 [ZEISS O-DETECT Optical Measuring Machine](#)
- 2 [OVERVIEW](#)
- 3 [Specifications](#)
- 4 [Documents / Resources](#)
 - 4.1 [References](#)
- 5 [Related Posts](#)



ZEISS O-DETECT Optical Measuring Machine



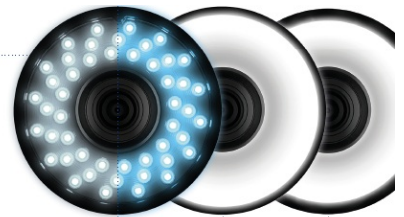
OVERVIEW

Entering the world of optical metrology

ZEISS O-DETECT is an optical measuring machine that offers intuitive operation, high-quality imaging and flexible lighting for precise measurements in an instant. The technology is suitable for a wide variety of components but excels with those that are best left untouched. Discover the new generation of optical metrology.

Versatile and easy to upgrade

The new exchangeable accessory platform enables users to install, remove or exchange accessories like topights to ZEISS O-DETECT without the need for service. This allows each user to configure their ZEISS O-DETECT completely according to their budget without being limited for future upgrades.



For now, or for the future

Lighting options include a classic multi-segment blue and a white spotlight for general part top lighting, options for lighting shiny workpieces, or optimized lighting for challenging edges.



Excellent optics

ZEISS Digital Zoom provides a large field-of-view at high resolutions – increasing efficiency and capturing more details. The high-quality images are captured with a 5-megapixel camera and together with ZEISS processing technology, transform images into precise measurement results.



Stable precision

Calibrated to MPE E(3D) as per ISO 10360, ZEISS O-DETECT promises reliability and ensures comparability world-wide, while delivering accurate 2D and 3D volume data - valuable in high compliance markets.



Simple part navigation and visualization

The integrated 5-megapixel overview color camera locates the part quicker to start measurements. Controlled by the software, it reduces the need to use the joystick.



Intuitive and user-friendly software

A long history and experience in metrology were combined in the measuring software ZEISS CALYPSO. ZEISS CALYPSO express has a simple programming environment to make entry into the world of optical metrology as easy as possible.



Professional and actionable reports

ZEISS PIWeb reporting offers one-click documentation and visualization of your measurement data, giving you useful insights into your parts and processes.



Specifications

Camera ZEISS INVENTA D1

- **Measuring volume** in mm³ 300 x 200 x 200 500 x 400 x 300
- **Field of view** in mm² 8,4 x 7,0 8,4 x 7,0
- **Length measurement error MPE(E)** in 2D in 3D μm 1,9 μm +L/150 2,4 μm +L/150 1,9 μm +L/150 2,4 μm +L/150
- **Software** ZEISS CALYPSO

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Documents / Resources



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O-DETECT, Optical Measuring Machine, O-DETECT Optical Measuring Machine, Measuring Machine

References

- [Industrial Metrology: ZEISS Industrial Quality Solutions](#)
- [ZEISS O-DETECT - Optical Measuring Machine](#)