



## **The ZEISS COMET®**

3D Scanning / Blue LED Fringe Projection

Measuring is simple and quick

with the ultra-compact 3D sensor



# ZEISS COMET®

The ultra-compact 3D sensor offers great flexibility, a high measuring speed and impressive performance

With the ZEISS COMET, you're using the latest sensor technology and project-orientated software for simple and reliable 3D data capture. Map the 3D data of your components quickly and accurately and gain increased scope for a multitude of measuring tasks thanks to the unique flexibility of the system.

The high-performance software platform ZEISS colin3D ensures a consistently efficient and project-oriented procedure during the entire measuring process.



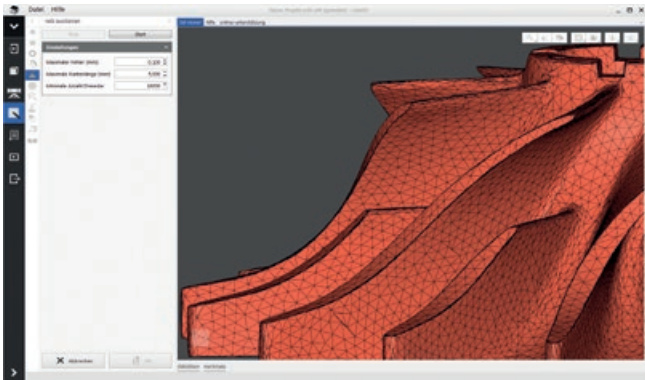
The right sensor for every application:

Customize the measuring field (45 – 500 mm) quickly by simply changing the lens

## Achieve optimal measurement results quickly and easily

In just a few simple steps and without any lengthy preparation, the ZEISS COMET sensor is ready for use – enabling you to concentrate on measuring.

This comprehensive solution uses the latest sensor technology and the project-oriented software colin3D for data capture and data processing. It affords you a high level of efficiency in operating sequences and generates high-quality measurement data. Thanks to the compact system set-up, it is possible to work in cramped conditions without any difficulty.

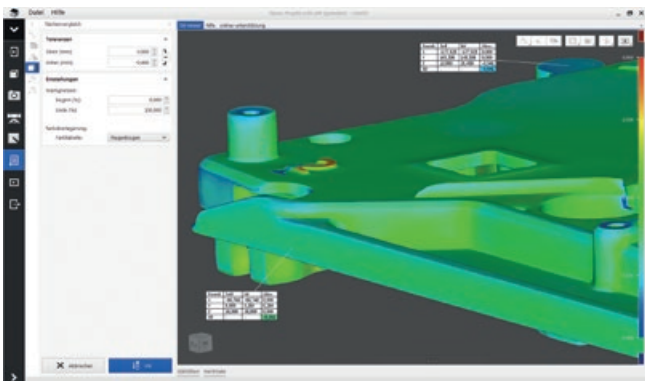


ZEISS colin3D measuring and evaluation software:

Quick triangle mesh generation (above) using high-quality data reduction, simple false color comparison (below)

## Designed for mobile and flexible use

Do you value flexible application possibilities? The innovative sensor system is extremely compact and light, meaning you can transport it to different application sites without any difficulty. Simple on-site calibration ensures that you can quickly change the measuring field by swapping the lenses. It's fast and easy, and soon the system is ready for the next measuring task.



## High precision for demanding applications

The ZEISS COMET delivers excellent data quality and highly accurate measuring results, making the system the ideal solution for demanding applications in quality inspection. With the ZEISS colin3D software, you'll generate easy false color comparisons for individual analysis as well as reports for documenting measuring results. The integrated reporting of the 3D data in ZEISS PiWeb with ZEISS CALYPSO also provides all analysis results on one measurement protocol.



### **Innovative technology**

With the high light intensity and fast camera on the ZEISS COMET sensor, you have the flexibility you need when using it at different sites.

The system delivers precise 3D data and automatically recognizes changes in vibration and exposure, even in difficult ambient conditions – high-end technology for exceptional data quality with maximum ease of use. Moreover, the enormous light yield and the sensationally high measuring speed ensure reliable data capture on different object surfaces.

### **A vast range of applications**

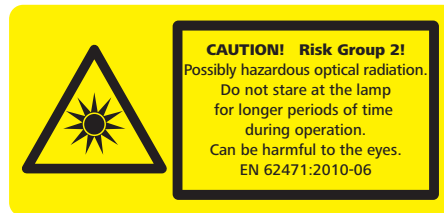
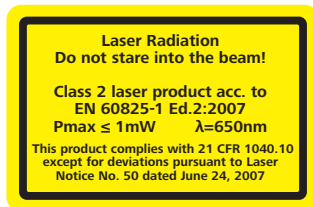
- Quality control/inspection
- Tool and mold making
- Design
- Rapid manufacturing
- Reverse engineering
- Archeology, documentation of art-historical objects, etc.





## ZEISS COMET – technical data

	COMET L3D 2 5M	COMET 8M
Resolution	2448 x 2050	3296 x 2472
Measuring volume in mm <sup>3</sup>	Measuring field 45: 45 x 38 x 30	
	Measuring field 75: 74 x 62 x 45	Measuring field 75: 80 x 60 x 40
	Measuring field 100: 118 x 98 x 60	Measuring field 150: 140 x 105 x 80
	Measuring field 250: 255 x 211 x 140	Measuring field 300: 325 x 240 x 200
	Measuring field 500: 481 x 404 x 250	Measuring field 600: 565 x 425 x 350
3D point spacing in µm	Measuring field: 45 / 75 / 100 / 250 / 500 18 / 30 / 48 / 105 / 196	Measuring field: 75 / 150 / 300 / 600 24 / 42 / 100 / 172
Shortest measuring time in seconds	~ 1	2.4
Working distance in mm	760 for measuring fields 45 / 75 / 100 / 250 / 500	760 for measuring fields 75 / 150 / 300 / 600
Computers	Available with desktop computer or notebook	Available with desktop computer or notebook
Sensor positioning	Tripod or column-type stand with a manual rotational/swivel axis	Tripod or column-type stand with a manual rotational/swivel axis
Automatic object positioning	Rotary table (COMETrotary)	Rotary table (COMETrotary)
Available software	ZEISS colin3D	ZEISS colin3D



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