



ZEISS COMET®6

3D Digitization / Blue LED Fringe Light Projection
Innovative high-end sensors
for efficient and high-precision 3D digitization



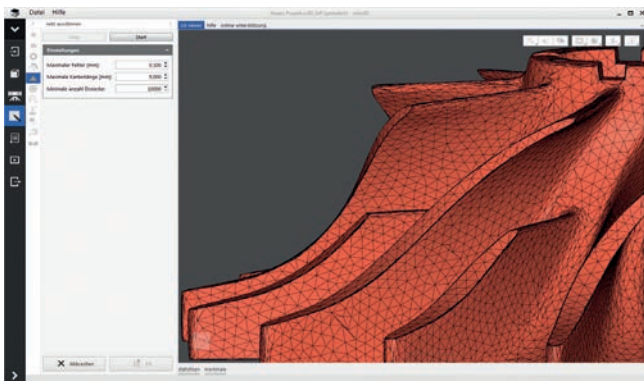
ZEISS COMET®6

Intelligent digitization with innovative projection technology for maximum data quality and precision

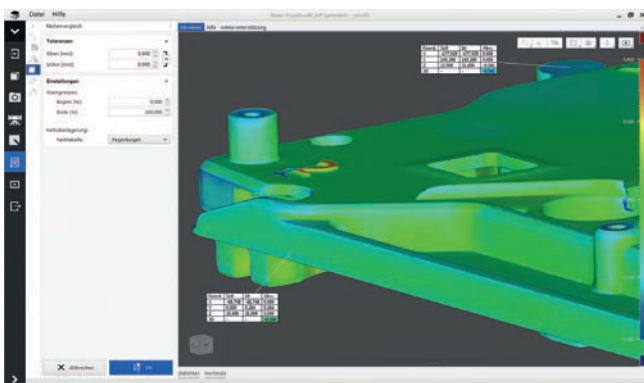
High-end technology for your demanding tasks: do your projects require a top measuring speed or maximum resolution for component digitization? The ZEISS COMET 6 sensors offer uncompromising flexibility and data quality. Choose between high resolution or maximum speed with each of the two sensors to achieve optimal performance for your particular use. The high-performance colin3D software platform ensures a consistently efficient, project-oriented workflow during the entire measuring process.



The ZEISS COMET 6 3D sensor provides powerful, high-end technology for challenging measuring jobs.



ZEISS colin3D measuring and evaluation software:
Quick triangle mesh generation (above) using high-quality data reduction,
simple false color comparison (below)



Powerful and intelligent with 3D ILC technology

The ZEISS COMET 6 features an extremely powerful LED and an innovative projection optic. The adaptive projection (3D ILC - Intelligent Light Control) ensures that the projected light quantity is adjusted for the particular object surface, keeping unwanted effects, e.g. halos, to a minimum.

The especially powerful projection module with an integrated control unit supports the new 'real time sync mode' and sets new standards in measuring speed for maximum efficiency when capturing 3D data.

COMET 6 8M: the new high-speed sensor

The ZEISS COMET 6 8M high-speed sensor impresses with its stunningly short measuring time of less than one second – even at maximum resolution.

COMET 6 16M: high resolution – maximum detail rendition

The ZEISS COMET 6 16M with a 16 megapixel camera offers an unprecedented level of detail for digitizing fine structures or for applications requiring detail rendition thanks to its high resolution.

The perfect, complete solution with ZEISS colin3D software

This combination of the latest sensor technology and the project-oriented ZEISS colin3D software for data capture and data processing offers a high level of efficiency in workflows and generates high-quality measuring data.

With ZEISS colin 3D software, you will generate easy false color comparisons for customized analysis as well as reports for documenting the measuring results.



User-oriented ergonomics

The compact housing design combined with the handling system specially designed for the sensor ensures maximum user-friendliness and ergonomic operation.

The sensor can be adjusted easily, precisely and quickly – the particularly intuitive and convenient operation together with the fast measuring time ensure maximum efficiency.

Modular design for efficiency and flexibility

The unique design of the ZEISS COMET 6 sensors is based on a modular setup with proven single-camera technology, enabling fast and easy adaptation of the field of view to fit the particular measuring job.

The minimal working distance – even with large measuring fields – enables uncomplicated and time-saving sensor positioning, especially when space is limited.

The modular system allows the operator to change the measuring field in just a few quick steps and is ready for the next application in almost no time. Take full advantage of the flexibility afforded by the ZEISS COMET 6 high-end sensors without cumbersome hardware modifications or additional sensors.



The user-friendly handling unit enables the ZEISS COMET 6 sensor to be positioned especially easily and quickly.

ZEISS COMET 6 8M/16M sensor models: technical data

	COMET 6 8M	COMET 6 16M
Camera resolution	3296 x 2472	4896 x 3264
Measuring volume in mm ³	Measuring field 80: 86 x 64 x 40	Measuring field 80: 81 x 54 x 40
	Measuring field 150: 142 x 106 x 80	Measuring field 150: 145 x 97 x 80
	Measuring field 250: 283 x 213 x 160	Measuring field 250: 274 x 193 x 160
	Measuring field 400: 386 x 289 x 200	Measuring field 400: 382 x 254 x 200
	Measuring field 700: 666 x 499 x 400	Measuring field 700: 656 x 437 x 400
	Measuring field 1200: 1216 x 912 x 600	Measuring field 1200: 1235 x 823 x 600
3D point spacing in µm	Measuring field: 80 / 150 / 250 26 / 43 / 86	Measuring field: 80 / 150 / 250 16 / 30 / 56
	Measuring field: 400 / 700 / 1200 117 / 202 / 369	Measuring field: 400 / 700 / 1200 78 / 134 / 252
Fastest measuring time	< 1 second	1.2 seconds
PC	64-bit high-end workstation with Windows 7	64-bit high-end workstation with Windows 7
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 tables COMETrotary, COMETdual rotary	Rotary tables COMETrotary, COMETdual rotary
Available software	ZEISS colin3D	ZEISS colin3D