ZEISS COMET®6

3D Scanning / Blue-LED Fringe Projection
Innovative high-end sensors
for efficient and high-precision 3D digitizing

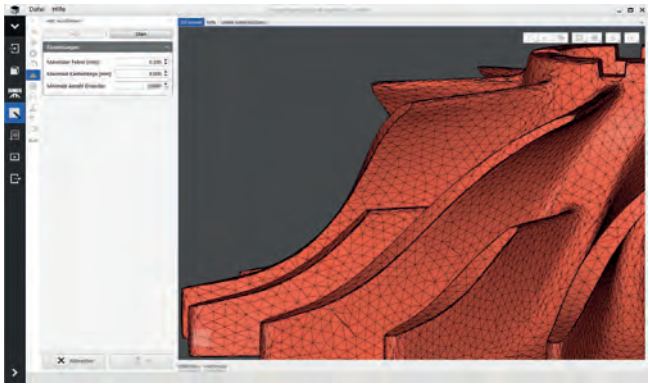
ZEISS COMET®6

Intelligent 3D digitizing with innovative projection technology for highest data quality and precision

High-End technology for your demanding digitizing applications: Do your projects require maximum measurement speed or highest resolution for measuring detailed/complex-shaped parts? The COMET 6 sensors are the ideal choice, offering uncompromising flexibility and data quality. Choose between higher resolution and maximum measurement speed at any time and achieve optimal performance for your specific usage.
The high-performance software platform colin3D ensures a consistently efficient and project-oriented procedure during the entire measuring process.

ZEISS COMET 6 provides high-end technology and achieves best results for demanding measurement applications

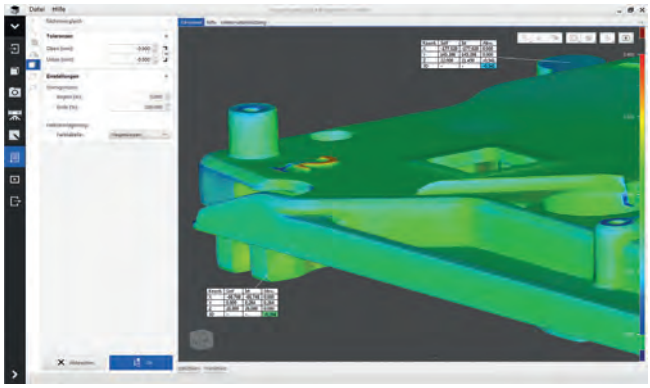
High light power and intelligent 3D ILC technology
ZEISS COMET 6 features an extremely powerful LED and innovative projection optics. The adaptive projection technology (3D ILC - Intelligent Light Control) locally adapts the light quantity projected onto the object surface; undesired effects such as glare are therefore minimized.
The high-performance projection module with integrated control unit supports the new „real-time sync mode“, thus setting new standards with exceptional speed and maximum efficiency for the acquisition of 3D data.



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

COMET 6 8M:
The new sensor for ultimate measurement speed
The new high-speed fringe projection sensor COMET 6 8M excites with a stunningly short measurement time which is even in high resolution mode less than one second.

COMET 6 16M:
High resolution for highest level of detail
COMET 6 16M with a high-resolution 16 Megapixel camera features a previously unprecedented precision for the digitization of objects with fine structures or for applications requiring the highest level of detail.



Perfect complete solution with ZEISS colin3D software
The combination with the project-oriented ZEISS colin3D software for data capture and data processing affords you a high level of efficiency in operating sequences and generates high-quality measurement data.
With the ZEISS colin3D software, you'll generate easy false color comparisons for individual analysis as well as reports for documenting measuring results.

User-oriented, ergonomic sensor handling
The compact sensor design paired with the specially designed handling system offers maximum user friendliness and ergonomic operation.
The sensor can be adjusted particularly easy, precise and quick – enabling the user to operate the system intuitively and conveniently. Paired with the sensationally fast measurement time, ZEISS COMET 6 offers maximum efficiency.

Modular design for efficiency and flexibility
The unique design of the ZEISS COMET 6 sensors is based on a modular set-up with the proven single-camera-technology which allows a fast and easy adaptation of the field-of-view to the application at hand.

The short working distance even with large measuring fields enables simple, time-saving handling, especially in confined spaces.

Requiring only a few simple steps, the modular digitizing system can be adapted to a different field-of view, and is available for your next application within shortest time. Without the need of any elaborate hardware modifications or additional sensors, you can take full advantage of the exceptionally high flexibility provided by the ZEISS COMET 6 high-end sensors.

With the user-friendly handling unit, the ZEISS COMET 6 sensor can be positioned very easily and quickly

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

	COMET 6 8M	COMET 6 16M
Resolution	3296 x 2472	4896 x 3264
Measuring volume in mm³	80 field-of-view: 86 x 64 x 40	80 field-of-view: 81 x 54 x 40
	150 field-of-view: 142 x 106 x 80	150 field-of-view: 145 x 97 x 80
	250 field-of-view: 283 x 213 x 160	250 field-of-view: 274 x 193 x 160
	400 field-of-view: 386 x 289 x 200	400 field-of-view: 382 x 254 x 200
	700 field-of-view: 666 x 499 x 400	700 field-of-view: 656 x 437 x 400
	1200 field-of-view: 1216 x 912 x 600	1200 field-of-view: 1235 x 823 x 600
3D point spacing in µm	field-of-view: 80 / 150 / 250 26 / 43 / 86	field-of-view: 80 / 150 / 250 16 / 30 / 56
	field-of-view: 400 / 700 / 1200 117 / 202 / 369	field-of-view: 400 / 700 / 1200 78 / 134 / 252
Fastest measuring time in seconds	< 1 sec.	1.2 sec.
PC	64Bit HighEnd Workstation with Windows 7	64Bit HighEnd Workstation with Windows 7
Sensor positioning	Tripod or column stand with manual rotary/swivel axis	Tripod or column stand with manual rotary/swivel axis
Automatic object positionierung	Rotary tables COMETrotary, COMETdual rotary	Rotary tables COMETrotary, COMETdual rotary
Available software	ZEISS colin3D	ZEISS colin3D

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