



STEINBICHLER COMET[®] LED

3D DIGITIZING
THE NEW 3D SENSOR GENERATION

**BLUE-LED
TECHNOLOGY**
AFFORDABLE • EFFICIENT

The extremely compact 3D-sensor STEINBICHLER COMET LED is a high-performance yet cost-effective entry level solution and opens up new dimensions in efficient 3D data acquisition.

INNOVATIVE

COMET LED uses innovative, maintenance-free and cost-effective LED lighting technology with a long life. With its new and unique LED pulse mode delivering a high light output, the system guarantees excellent measurement results even in difficult ambient conditions. The sensor housing with the proven single-camera technology from Steinbichler and the complete measurement setup are ultra-compact and lightweight for easy portability.

EASY

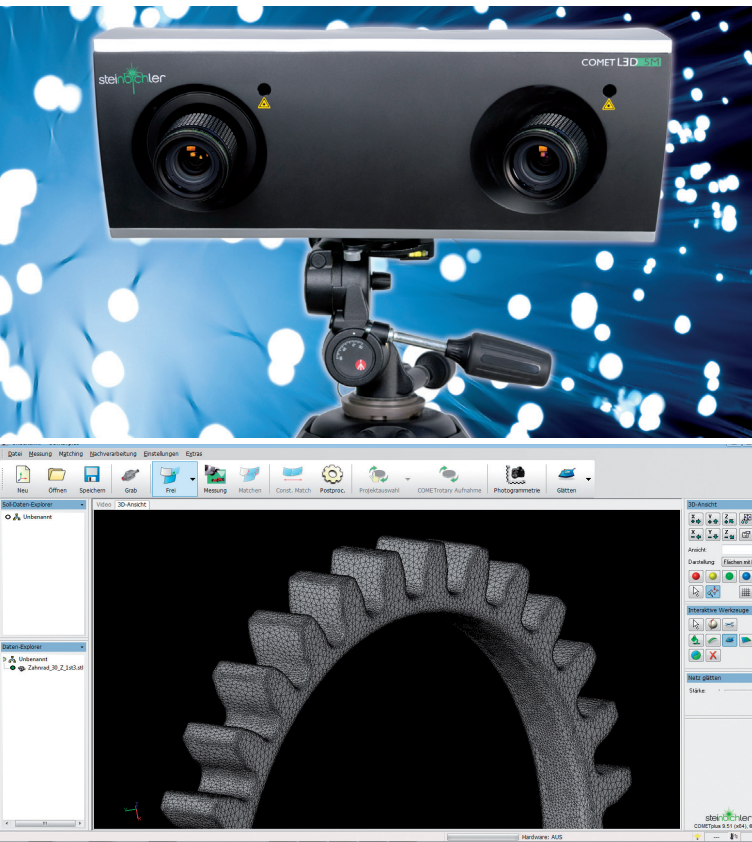
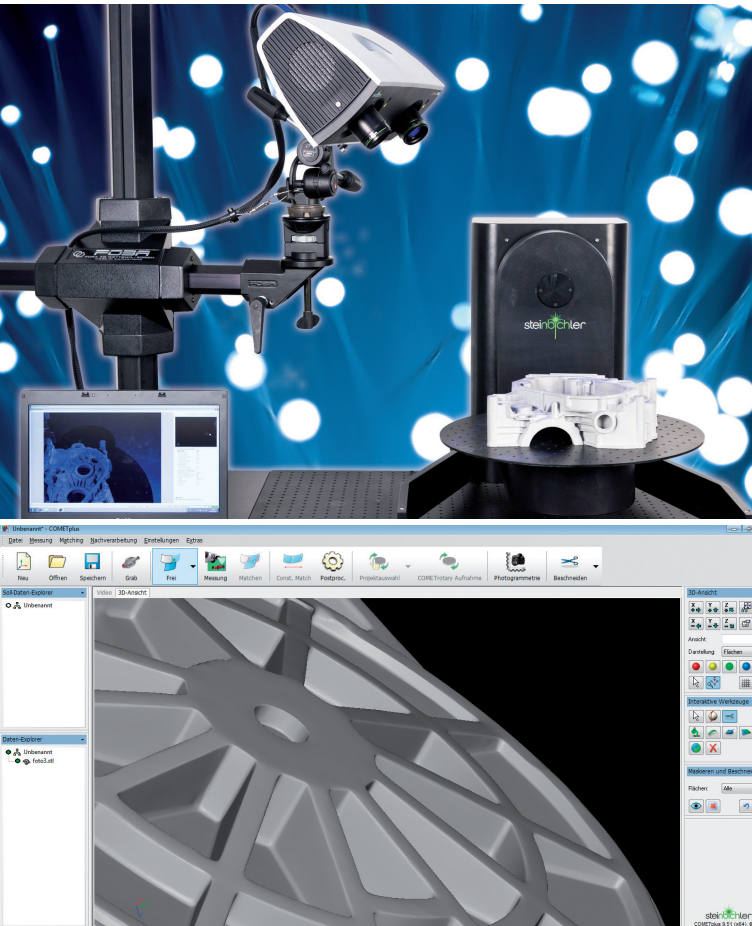
The COMET LED sensor is ready to run in minimum time. Conventional camera/video stands for positioning the measuring head make handling very easy and efficient. The short working distance ensures ease of use even in confined areas. Changing the field of view is also quick and simple – all you need to do is change the lens.

FAST

3D data acquisition with the STEINBICHLER COMET LED is sensationally fast. The extremely short measurement time and the simple-to-use software allow efficient measurements.

ACCURATE

Delivering excellent data quality and highly accurate results, COMET LED is also ideal for demanding applications in quality assurance. The unique solution can even be combined with photogrammetric processes to digitize large objects.





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AREAS OF APPLICATION

Quality Control / Inspection

- Comparison of actual data with nominal data (part to CAD)

Mold and Toolmaking

- Tool reconstruction
- Scan data for generation of milling tool paths
- Documentation of actual 3D data at tool release

Design

- Scanning of design models for further processing of CAD data, documentation

Rapid Manufacturing

- Acquisition of 3D data for Rapid Prototyping

Reverse Engineering

Scanning of art/historical objects, archaeology

HIGHLIGHTS

- COMET LED is particularly well suited for the quality assurance of small and medium-sized plastic or metal parts.
- The non-contact measurement principle of the COMET LED sensor offers the possibility to measure delicate and fragile objects (e.g. of plastic or foam material) that are very difficult to measure using conventional measuring machines/ tactile measuring heads.
- The BLUE LED technology of the COMET LED sensor allows capturing up to 2M / 5M measurement points in only about 1.5 / 2.0 seconds. Parts with many features can be captured many times faster using this process than using conventional tactile systems.

TECHNICAL DATA COMET LED 2M

Camera Resolution	1600 x 1200
Measurement Volume in mm ³	100 field-of-view: 100 x 75 x 60 200 field-of-view: 215 x 165 x 140 400 field-of-view: 400 x 300 x 250
3D Point Distance in µm	field-of-view 100 / 200 / 400 60 / 135 / 250
Fastest Measuring Time	1.5 seconds
PC	available with desktop PC or notebook
Sensor Positioning	tripod or sensor stand with manual rotation and tilt axis
Automatic Object Positioning	rotation table (COMETrotary, COMETdual rotary)
Available Software	STEINBICHLER COMETplus

TECHNICAL DATA COMET LED 5M

Camera Resolution	2448 x 2050
Measurement Volume in mm ³	45 field-of-view: 45 x 38 x 30 75 field-of-view: 74 x 62 x 45 100 field-of-view: 120 x 100 x 60 250 field-of-view: 260 x 215 x 140 500 field-of-view: 480 x 400 x 250 800 field-of-view: 750 x 630 x 500
3D Point Distance in µm	field-of-view: 45 / 75 / 100 / 250 / 500 / 800 18 / 30 / 50 / 100 / 190 / 300
Fastest Measuring Time	2
PC	available with desktop PC or notebook
Sensor Positioning	tripod or sensor stand with manual rotation and tilt axis
Automatic Object Positioning	rotation table (COMETrotary, COMETdual rotary)
Available Software	STEINBICHLER COMETplus



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