



COMET®LED

3D Digitizing
The new 3D sensor generation

The extremely compact 3D sensor 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 and the complete measurement setup are ultra-compact and lightweight for easy portability.

FAST

3D data acquisition with the 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.

Areas of application

- Quality control / inspection
- Mold and toolmaking
- Design
- Rapid Manufacturing
- Reverse Engineering
- Archaeology, scanning of art/historical objects, etc.





COMET® L3D

Sensor Overview Technical Data

	COMET L3D 1M	COMET L3D 2M	COMET L3D 5M	COMET L3D 8M
Resolution	1170 x 880	1600 x 1200	2448 x 2050	3296 x 2472
Measurement volume in mm ³	100 field-of-view: 92 x 69 x 60 200 field-of-view: 200 x 150 x 140 400 field-of-view: 370 x 277 x 250	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	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	75 field-of-view: 80 x 60 x 40 150 field-of-view: 140 x 105 x 80 300 field-of-view: 325 x 240 x 200 600 field-of-view: 565 x 425 x 350
3D Point distance in µm	field-of-view 100 / 200 / 400 79 / 170 / 316	field-of-view 100 / 200 / 400 60 / 135 / 250	field-of-view: 45 / 75 / 100 / 250 / 500 18 / 30 / 50 / 100 / 190	field-of-view: 75 / 150 / 300 / 600 24 / 42 / 100 / 172
Fastest measurement time	2.5 seconds	1.5 seconds	2 seconds	1.7 seconds
PC	available with desktop PC or notebook	available with desktop PC or notebook	available with desktop PC or notebook	available with desktop PC or notebook
Sensor positioning	tripod or sensor stand with manual rotation and tilt axis	tripod or sensor stand with manual rotation and tilt axis	tripod or sensor stand with manual rotation and tilt axis	tripod or sensor stand with manual rotation and tilt axis
Automatic object positioning	rotary table (COMETrotary, COMETdual rotary)	rotary table (COMETrotary, COMETdual rotary)	rotary table (COMETrotary, COMETdual rotary)	rotary table (COMETrotary, COMETdual rotary)
Available software	ZEISS colin3D	ZEISS colin3D	ZEISS colin3D	ZEISS colin3D

COMET L3D:

A perfect sensor for every application.

EASY

The COMET L3D 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.