

More Precision

New Products | Innovative Sensor Technologies

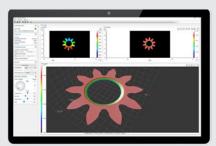


surfaceCONTROL 3D 3500

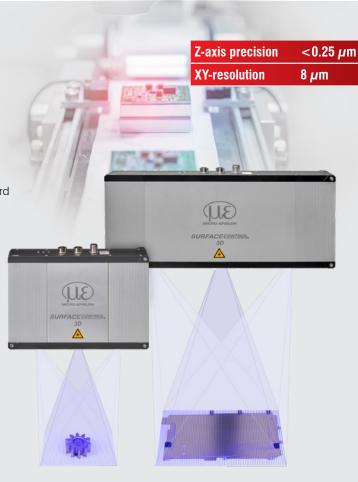
3D snapshot sensors with highest precision

- Precise inline inspection of geometry, shapes and surfaces
- Highest repeatability up to 0.25 μm
- Up to 2.2 million 3D points / second
- State-of-the-art interfaces with GenlCam and GigE Vision standard
- Real 3D-Data with highest image quality
- Easy integration in all common 3D image processing packets

NEW: surfaceCONTROL 3500-30 with Z and X/Y-axis precision



Parameter setting and evaluation of Micro-Epsilon 3D sensors are performed via the 3DInspect software.



scanCONTROL

Laser profile sensors for fast 2D/3D scans

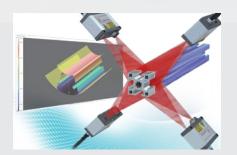
- Compact size with integrated evaluation: no external controller required
- Powerful software for parameterization and visualization
- 33% more measurement points for detailed laser scans
- Increased SMART evaluation speed by up to 60%
- High speed profile evaluation up to 10 kHz directly in the sensor

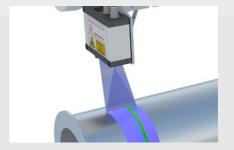
NEW: 3D Profile Unit for automated profile evaluation and 3D inspection of complex geometries











optoNCDT

Smart laser sensors with outstanding precision and speed

- Compact sensors with integrated controller
- Advanced Surface Compensation for fast adaption to changing surfaces
- Highest immunity to ambient light
- Easy integration: fieldbuses, analog and digital outputs
- Ideal for series integration in automation & machine building

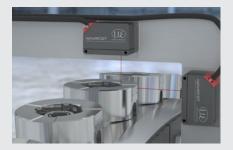
NEW: optoNCDT 5500 for highly dynamic measurement tasks with highest precision

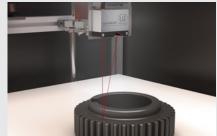
Measuring ranges 10 to 200 mm

Measuring rate 75 kHz

Repeatability $\leq 0.15 \mu m$









thermoMETER

High performance industry pyrometers for industrial series applications

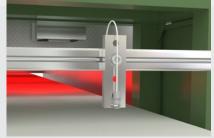
Measuring ranges $-50 \text{ to } 900 \text{ }^{\circ}\text{C}$ Spectral range 8 to 14 μ m

- First-class signal quality for highest reliability
- Best temperature stability for more precision even with strongly fluctuating ambient temperatures
- Individual sensor configuration via sensorTOOL Software
- Perfectly customizable for OEM: presets, hardware and software modifications
- Wide range of integration options via analog and digital interfaces or fieldbus

NEW: Modern IR pyrometers for industrial applications









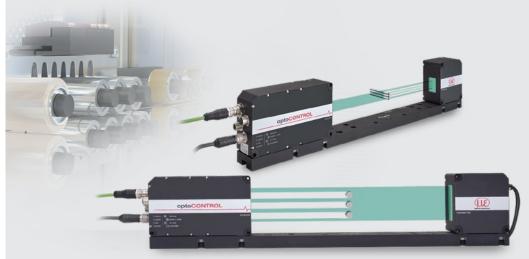
optoCONTROL 2700

High-performance micrometer for the highest demands

Measuring ranges	10 / 40 mm
Sampling rate	15 kHz
Linearity	< 0.5 µm

- Precise measurement of diameter, gap and segment
- High measurement accuracy and sampling rate
- Measures tiny objects from 0.05 mm
- High resistance to ambient light
- Robust aluminum housing (IP67)
- Ideal for fast and precise production monitoring

NEW: 10 mm measuring range for high precision measurements, e.g. roller gap







optoNCDT ILR

Non-contact distance and displacement measurements with high precision

 Precise measurement of displacement, distance & position on different surfaces

- Large measurement areas for indoor and outdoor use
- High repeatability
- Fast response time
- Numerous interfaces: RS422, RS232, PROFINET, Ethernet/IP, IO-Link

NEW: optoNCDT ILR 3800 for precise distance measurements in industrial applications











capaNCDT

Capacitive displacement sensors for high precision distance measurements

Measuring ranges 0.05 to 10 mm

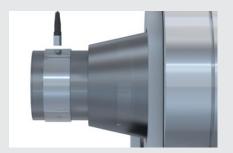
Resolution from 0.03 nm

Measuring rate up to 20 kHz

- High precision measurement of displacement, distance, gap & position
- World's most modern product portfolio for various applications
- Industrial-grade sensor portfolio and robust controller
- Highest interference immunity to electromagnetic fields
- Voltage output / digital interface RS485
- Optimized for series in industrial and semiconductor applications

NEW: High temperature sensors for use up to 800 °C









up to 25 mm

from 0.04 µm

up to 5 kHz

Material thickness

Resolution

Measuring rate

thicknessGAUGE

Sensor system for precise thickness measurement

Compact system for precise inline thickness measurement

 For many types of surfaces and materials due to different sensor technologies

- Traverses via linear axis
- Fully automatic calibration
- Powerful software package included

NEW: thicknessGAUGE 3D for 3D geometry measurement of strips and plates









confocalDT

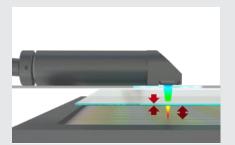
High precision confocal sensors

Measuring ranges 0.1 to 30 mm Resolution from 3 nm **Measuring rate** up to 30 kHz

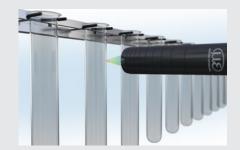
- High-resolution displacement & distance measurements on almost all surfaces
- Reliable thickness measurement of glass and transparent objects
- Extremely small measurement spot for the detection of smallest objects
- Wide range of sensors for numerous applications: All-in-one sensors and compact controllers
- Cutting-edge technology: fastest controller, largest tilt angle & smallest light spot

NEW: IFC2416 controller for fast and highly dynamic measurements









Measuring ranges up to 2.1 mm

< 30 pm

up to 24 kHz

Resolution

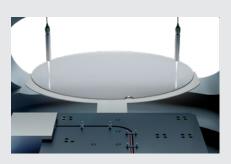
Measuring rate

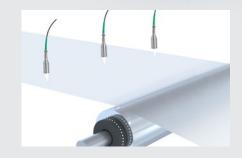
interferoMETER

High-precision absolute interferometers for industry and semiconductors

- Absolute distance measurement and multi-peak distance measurement
- Distance-independent thickness measurement, multi-layer thickness measurement and wafer thickness measurement
- Highest resolution and linearity
- Highest signal stability and active temperature compensation
- Industry optimized sensors with robust metal housing and flexible cables

NEW: interferoMETER IMS5200 for high precision layer thickness measurement









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