

Smart Cameras made in Germany



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VC nano 3D

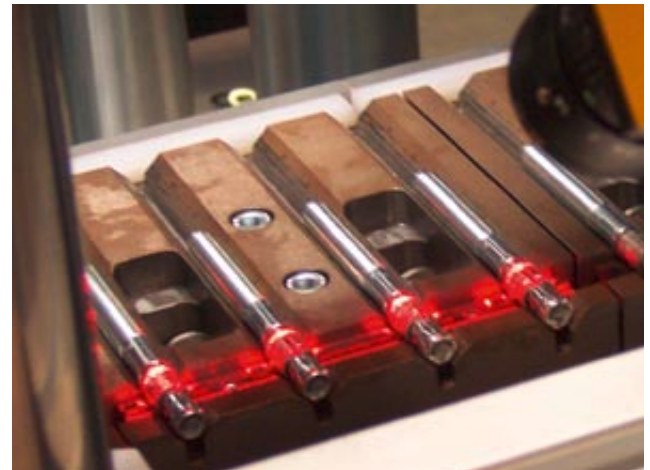
VC nano 3D

Intelligent 3D sensor for all applications

The compact housing of VC nano 3D already integrates laser and intelligent camera. Thanks to Embedded Computing Power, image acquisition at real-time speed is both standard and base for 3D data. This makes the VC nano 3D **the first intelligent 3D laser triangulation sensor in the world** that offers the full functionality of smart cameras. Based on well-proven VC technology, the sensor is capable of free parameterizing for all kinds of 2D inspection tasks. With that, **two completely different testing procedures can be applied with only one cost-efficient camera.**

Application Areas:

- Measurement
- Robot Guidance
- Completeness Check
- Decoding of Stamped Parts
- Part Inspection
- and many more!



| SPECIFICATIONS valid for all models: | VCnano 3D |
|---|---|
| SCAN RATE | up to 400 Hz |
| LASER | Class 1, wave length 635 nm, power 5 mW |
| INTERFACE | 2 x Input, 4 x Output à 400 mA, 100 Mbit Ethernet |
| PROCESSOR | high-end DSP |
| SUPPLY VOLTAGE | 24 V +20% |
| DIMENSIONS | 140 x 70 x 35 mm, ca. 400 gr. |



OCR on 3D relief letters.

| SPECIFICATIONS | VCnano 3D xr830 | VCnano 3D xr845 | VCnano 3D xt1245 |
|--------------------------|-----------------|-----------------|------------------|
| WORKING DISTANCE | 150 mm | 80 mm | 80 mm |
| HORIZONTAL MEASURE RANGE | 60-120 mm | 50-70 mm | 35-45 mm |
| VERTICAL MEASURE RANGE | ± 55 mm | ± 25 mm | ± 20 mm |
| RESOLUTION LATERAL | 100-200 µm | 80-100 µm | 30-40 µm |
| RESOLUTION VERTICAL | 30 µm | 15 µm | 5 µm |

Other models are available, please ask for specifications.

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