

COMET[®]5

Automated 3D Digitizing



The 3D digitizing system COMET5 offers outstanding benefits for mobile use and deliver fast and highly precise results for challenging measurement tasks such as production-related quality control. This opens new perspectives for a wide application range. One of the most prominent features of the new COMET5 sensor (based on whitelight fringe projection) is its extremely high measurement speed which in combination with the excellent data accuracy contributes to an essential optimization of quality control processes. In combination with a robot for object handling, a fully automated measurement process is now available. Now, the 3D digitization of small and medium-sized objects (injection molded parts, etc.) for e.g. first sampling (inspection of functional accuracy) is made even faster allowing a substantial simplification of routine control measurement tasks. The measurement data can be used for evaluation in any common inspection software tool for comparison of actual and nominal data of a reference object (CAD data, released sample part).



- fully automatic, efficient 3D digitization of small and medium-sized objects
- high data accuracy and excellent data quality
- outstanding measuring speed (< 1 sec./view)
- full (360°) capture of measuring object
- use for recurring measuring tasks in quality control (sample check/production)
- possibility of fully automatic object handling/parts supply (e.g. feeding of parts from stack or conveying unit)
- compact, industry-proven setup
- fully automatic matching - no object preparation necessary
- no additional rotating table necessary

COMET[®]5 - Technical Data

Measuring Area (mm ²)	80 x 80 - 800 x 800
Mean Point Distance (mm)	≥ 0,04
Measuring Distance (mm)	420 - 1700
Resolution in z (mm)	≥ 0,001
Acquisition Time (s)	< 1 Sec.
Measuring Points per View	1600 x 1200 / 2000 x 2000 / ...
Dimensions Camera Module (mm ³)	160 x 235 x 155
Dimensions Projector Module (mm ³)	280 x 255 x 155
Length of Supporting Beam (mm)	600 - 900
Distance PC - Sensor (Cable Length) (m)	≤ 80

