

## 3D Measurement & Inspection System

- 3D measurement without reference targets
- Projection of 3D contours for assembly aid
- Target-actual comparison between CAD data and workpiece
- Display of target-actual differences through laser projection
- Control of assembly and projection of false installed parts



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| <b>Housing</b>                         | Dimensions L/W/H in mm                           | 1308 x 324 x 171 (incl. cameras)   |
|  | Protection class                                 | IP 65  |
|  | Weight   | 19kg incl. external power supply   |
| <b>Voltage (external power supply)</b> | Input voltage                                    | 100/240 VAC, 50-60Hz   |
|  | Power consumption                                | <ul style="list-style-type: none"> <li>• Standby: &lt; 55W</li> <li>• In operation: &lt; 190W</li> </ul> |
| <b>Data transfer</b>                   | Type of connection                               | Ethernet   |
|  | Projector  | Ethernet TP, 100 Base TX   |
|  | Camera   | 2x GigE  |
|  | Software   | Z3D; GEOMAGIC® optional  |
|  | Format of graphics: Import                       | HPGL, STL, others optional   |
|  | Format of graphics: Export                       | Point cloud ASCII / STL  |
| <b>Laser</b>                           | Laser source red                                 | 638nm  |
|  | Laser source blue (optional)                     | 450nm  |
|  | Output power                                     | 7mW nominal (on request up to 40mW → laser class 3B)   |
|  | Laser class                                      | 2M   |
| <b>Camera</b>                          | Resolution                                       | H 2448 x V 2058  |
|  | FOV  | H 38°, V 32°, others optional  |
| <b>Projection area</b>                 | Optical fan angle                                | Max. 60° x 60°   |
|  | Refresh rate                                     | 50Hz (Reference test image quad.plt)   |
|  | Projection                                       | Arbitrary polygons   |
| <b>Scan volume</b>                     | For instance at distance 2,7m and 1m basic width | WxDxH: 2m x 1,3m x 1,7m<br>Optional: larger volume   |
|  | Resolution                                       | Down to 0,25mm / axis  |
| <b>Conditions for installation</b>     | Working temperature                              | Min. 5°C   |
|  | Passive cooling                                  | Max. 40°C  |