Scan3D DUAL VOLUME is a precise non-contact measurement device with LED light technology and GigaBit Ethernet communication. These features enable a very fast execution of complex measurements. As a professional tool for metrology each 3D scanner is certified according to VDI / VDE 2634 standards and its accuracy can be confirmed by independent accredited metrology lab with adequate certificate. Scan3D DUAL VOLUME has two independent measurement volumes featuring different workspace, accuracy and measurement resolution. Large volume allows automated measurement of overall dimensions using markers for merging single shots. On the other hand, small volume allows precise measurements of smallest details such as threads and in high-resolution mode (up to 1500 points/mm²).

All professional 3D scanners produced by SMARTTECH are factory calibrated “plug&scan” devices ready to work within second from launching. Standard 3D scanner is equipped with everything you need for starting professional scanning process: lasers enabling easy positioning of object in measurement volume, tripod with tilt and swivel head and trolley for even more user friendly scanning and professional transport cases. Scanners can be used in two scanning modes (PRECISE & FAST) in each of the measurement volume, giving additional option to reduce or enhance number of measurement points (sampling density) where needed. Thanks to all those features and certificate of accuracy from accredited laboratory our clients often name those systems optical coordinate measuring machines (CMM).
3D scanner for rapid and reverse engineering
Complex solution for creating precise and accurate CAD models with 3D scanner:
- automated creation of triangle mesh and parametric surfaces (NURBS)
- advanced cloud of points addition algorithms
- short time data processing
- compatible with any of popular CAD formats

Many measurement volume sizes to choose from, automatic merging of single measurement based on stick on markers or/and numeric rotation table, enables easy scanning process of any size objects. This optical measurement system has been created for full integration of device with high-end RE software such as Geomagic Solutions. Thanks to closed cover, ISA system and professional transport cases Scan3D Surface is a fully mobile system.

3D scanner for quality control and dimension check
Complex solution for quality control and inspection:
- real object / CAD model comparison (deviation statistics, colored map of deviation),
- create 2D sections and check model dimensions,
- automated go/ no go product inspection
- automatic generation of 3D PDF reports.

High density (up to 1200 points/mm2) and precise measurement of scanned object enables high end control process and integration with quality control software helps to generate automatic reports and pass/fail statistic. This professional measurement systems have referential for you customers and applied quality systems.

### Specification technical

<table>
<thead>
<tr>
<th></th>
<th>SCAN3D DUAL VOLUME</th>
<th>SCAN3D surface</th>
<th>SCAN3D qualify</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scanning technology</strong></td>
<td>Structured light LED white or blue</td>
<td>Structured light LED white or blue</td>
<td>Structured light LED white or blue</td>
</tr>
<tr>
<td><strong>Detector resolution</strong></td>
<td>10; 5; 2 Mpix</td>
<td>10; 5; 2 Mpix</td>
<td>10; 5; 2 Mpix</td>
</tr>
<tr>
<td><strong>Field measurement [mm2]</strong></td>
<td>80x100 - 1200x1600</td>
<td>80x100 - 1200x1600</td>
<td>80x100 - 1200x1600</td>
</tr>
<tr>
<td><strong>Distance between point [mm]</strong></td>
<td>0,01 - 0,50</td>
<td>0,01 - 0,50</td>
<td>0,01 - 0,50</td>
</tr>
<tr>
<td><strong>Sampling [pkt/mm2]</strong></td>
<td>5 - 1200</td>
<td>5 - 1200</td>
<td>5 - 1200</td>
</tr>
<tr>
<td><strong>The accuracy of [um]</strong></td>
<td>20 - 40</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td><strong>Tripod, flying case</strong></td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Texture scanning</strong></td>
<td>option</td>
<td>+</td>
<td>option</td>
</tr>
<tr>
<td><strong>Mobile work station</strong></td>
<td>+</td>
<td>option</td>
<td>option</td>
</tr>
</tbody>
</table>

Local distributor:

PHOTONITA Metrologia Optica
Rod. SC-401, km 01, no. 600
Ed. CELOA - ParTec Alfa
Barão João Paulo
Piratapora-SC - 88038-000
Tel.: +55-3239-2258
www.photonita.com.br
photonita@photonita.com.br