

MICRON3D

green stereo

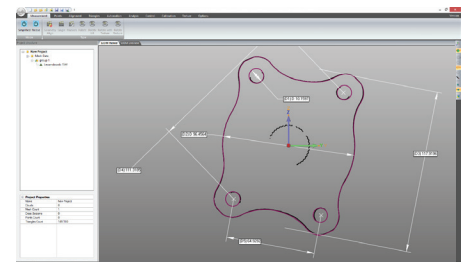
SMARTTECH3D
M E T R O L O G Y



The MICRON3D green stereo is the most accurate 3D scanner on the market designed for Manufacturing operations that value technology solutions in line with Industry 4.0. The MICRON3D green stereo is ideally suited for quality control or reverse engineering applications.

OPTICAL 3D COORDINATE MEASURING MACHINE

The MICRON3D green stereo uses green LED light measuring 520 nm wavelengths, which, together with the filter used, reduces the impact of lighting changes on measurements. This allows it to capture up to 30% better results when compared to 3D scanners using white light measurement. In addition, the 3D scanner from SMARTTECH incorporates two monochrome detectors, which allow much more accurate reproduction of the structure surface. Using LED lighting ensures maximum life expectancy and years of trouble-free operation.



The latest features of the SMARTTECH3D measure software:



ONE CLICK IS ENOUGH

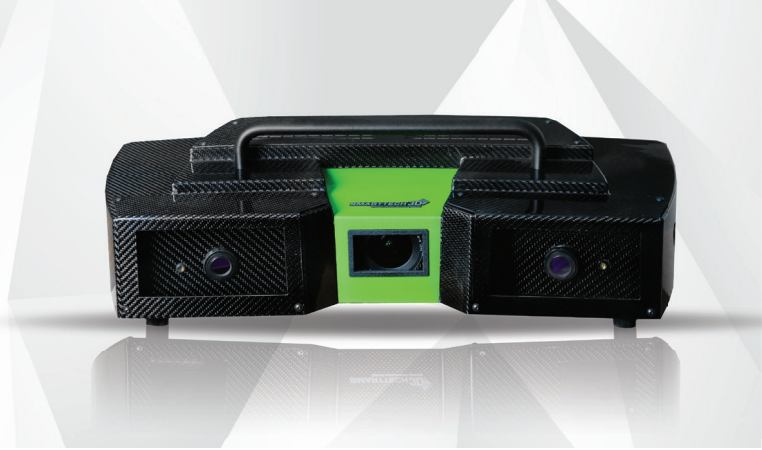
Predefined automation - „one click“ is needed to receive the 3D model in the form of a triangle mesh .STL file, e.g. for 3D printing.

3D SCANNING AND DIMENSIONAL INSPECTION NOW IN ONE SOFTWARE

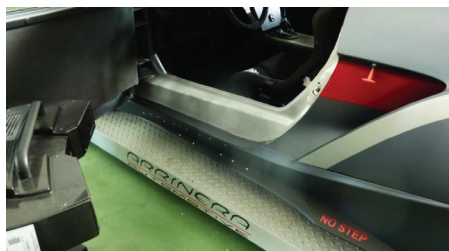
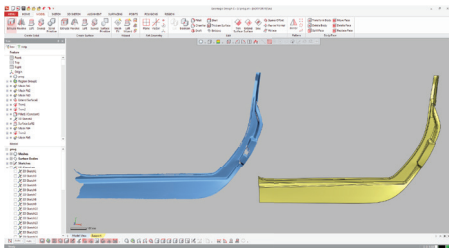
Immediately after the 3D scanning process, you can go to the analysis tab that allows to dimension the object, calculate its volume and surface area.

FEATURES of the MICRON3D green stereo:

- Stereoscopic measurement using two detectors
- New measurements method - Dual Directions Stripes (DDS)
 - Full carbon fiber frame and cover
 - Enhanced surface and edges reconstruction
- Higher measurement accuracy thanks to green LED light
- Precise quality control - scan to CAD comparison



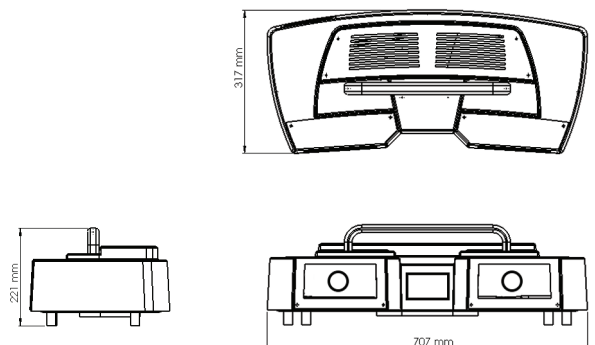
MICRON3D green stereo is a professional and factory calibrated metrology tool and is certified by the manufacturer according to the German VDI / VDE 2634 standard. Its measurement accuracy can be additionally confirmed by a certificate of an independent accredited metrology laboratory. The scanner is covered by a 12-month warranty and full technical support provided by the best 3D scanning experts. This means that you can count on the help of our experienced team at every stage of 3D scanning.



The accuracy and durability of the device were confirmed by field tests and advanced measurement tests conducted by SMARTTECH experts and independent units.

Technical specification	5-5 Mpix		
Scanning technology	Green structured light - LED		
Measuring field [mm ²]	200x150	300x200	400x300
Distance between points [mm]	0,078	0,117	0,156
Sampling [points/mm ²]	160	70	40
Accuracy [μm]	13	28	40
Weight [kg]	9		

* Other parameters of the volume and resolution of the 3D scanner are available on request



Some of our customers:



POLYTEC GmbH
Tel: +49 (72 43) 604 174 0

Polytec-Platz 1 - 7
Fax: +49 (72 43) 6 99 44

D -76337 Waldbronn
E-Mail: ot@polytec.de

GERMANY
www.polytec.de