

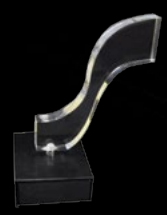
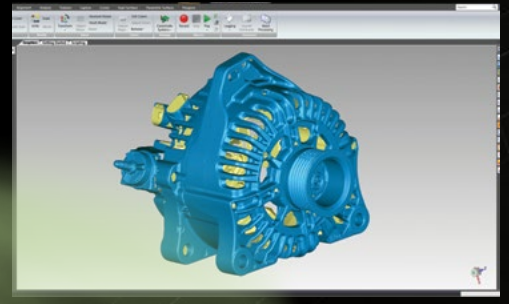
NEW !

MICRON3D

green 10Mpix

3D SCANNER FOR EXTREME APPLICATIONS

Measurement accuracy enhanced by 30% coupled with endurance of carbon fiber construction ready to work in wide temperature range.



Silver
Laurel of Innovation 2014



Gold Medal
CONTROL-TECH FAIRS 2014

GREEN LED light
technology



Modern carbon cover

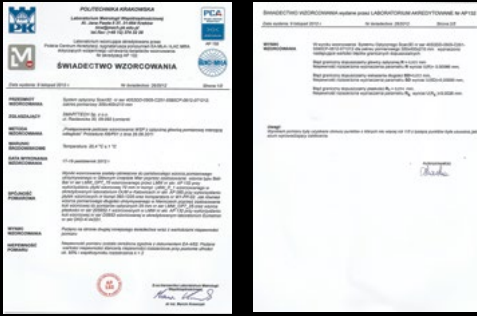


Dustproof system
with industrial filter

Development and refining of micron3D took over two years, what allowed us to work over each detail of this hi-end 3D scanner. Our experts and designers based on questionnaire among scanner users, elaborated basic requirements for new generation of 3D scanner. As an outcome: the new technology of optical 3D scanner with narrow band green structural light has been launched.

MICRON3D is the high class optical 3D scanner dedicated to 3D scanning of difficult and complex shaped objects. The system is created to increase efficiency of 3D scanning on any production stage. High technical parameters, closed and compact casing, makes our product fully reliable and mobile measurement device. Using breakthrough technology of narrow-band green LED light not only reduces external light influence (as BLUE light), but enhances the accuracy of scanner by 30%.

Housing and construction of the device has been designed to minimize the impact of external factors during the measurement. Use of modern carbon fibre both increased strength of construction and minimized the influence of temperature fluctuation on scanners accuracy. Additionally implemented internal shock absorbing system and changeable dust proof filters protect sensitive interior of the 3D scanner.



As the professional and referential measurement device, accuracy of MICRON3D is checked according to VDI/VDE 2634 part 2 standard. Manufacturer certificate of accuracy given to each device assures the quality of the product. Thanks to rigid construction: 3D scanner can be also certified by independent accredited metrology laboratory and this way easily fit into customers quality ensuring systems.

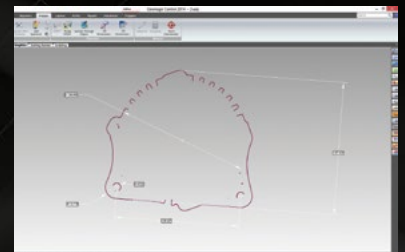
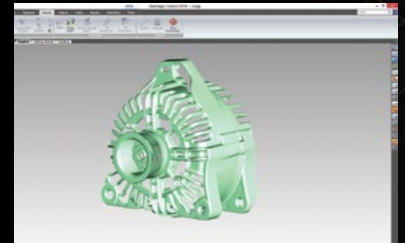
Secret of green LED light technology

The secret of green light is connected to its mid wave length, comparing to different components of white light. Thanks to this position it is the best length for recalibration and testing of most optical devices. This means that one can be sure that with green light technology we get best performance we can achieve. Through wide testing procedures and field measurements, SMARTTECH found that the difference in accuracy of optical scanner can be this way increased by up to 30%.

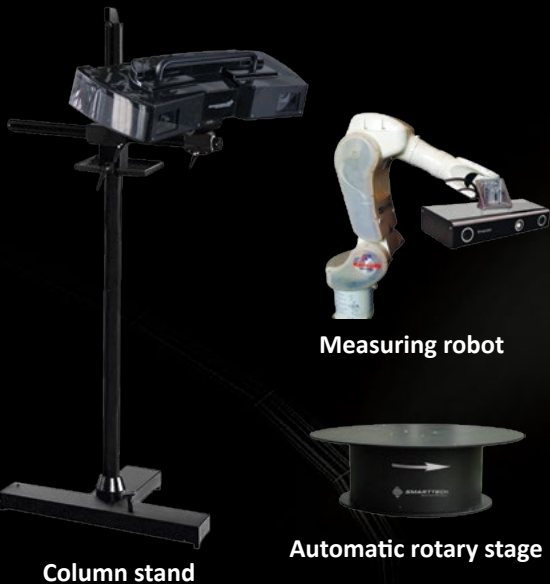
Now this knowledge works for your extreme precise measurement.

MICRON3D is the complex solution for advanced 3D scanning application. The highest scanning resolution (10 Mpix) and density of surface probing (to 330 points/mm²) provides fully detailed results of even most complex objects. 3D scanner is held on stable, ball headed, tripod that allows to adjust the proper scanner position. Additionally installed laser pointers determine placement of measurement volume. Efficient mobile workstation added to the 3D scanner is equipped with specialized cloud of point processing and meshing software. This advanced software allows not only fully automatization of scanning process using rotary stage, markers and three point merging, but also complex data post processing such as advanced noise reduction and fast texturing.

Scanner is packed in convenient hard case with wheels and pull-out handle.



Additional accessories:



Column stand

Measuring robot

Automatic rotary stage

Technical specification	MICRON3D 5 Mpix	MICRON3D 10 Mpix
Scanning technology	Structured green LED light	Structured green LED light
Detector resolution	5 Mpix	10 Mpix
Measurement field [mm ²]	from 150x200 to 600x800	from 150x200 to 1200x1600
Measurement depth [mm]	120 - 350	120 - 800
Distance between points [mm]	0,07 - 0,30	0,05 - 0,40
Sampling [points/mm ²]	170 - 10	300 - 5
Accuracy [μm]	18 - 70	18 - 280
Tripod, flight case	+	+
Texture scanning	option	option
Mobile workstation	+	+

