



# RigelScan

Metrology-Grade Handheld Laser Scanning System

## SMART HANDHELD BLUE LASER 3D SCANNER

PORTABLE BLUE LASER 3D SCANNER SERIES

Perfect Metrology Solution



ZG TECHNOLOGY CO., LTD.



# ZG TECHNOLOGY CO., LTD.

## ABOUT ZG

ZG Technology is a professional 3D scanner solution provider, which is an expert in research and developing 3D technology. ZG portfolio includes metrology-grade portable 3D laser scanner, optical tracking 3D scanner, smart in-line inspection system, smart full-color 3D scanner and photogrammetry system, which can widely meet different customer requirements, such as quality inspection, reverse engineering, VR&AR etc.

## TECHNICAL TEAM

ZG technology R&D team has 7 doctors and 15 masters, all are the experts in photogrammetry and 3D measurements. ZG Technology is based on independent Intellectual Property Right, cutting edge technologies and achievements from Wuhan University, which gets more than 130 national patents and software copyrights, and has received more than 20 national and ministerial-level qualification awards.

A Professional 3D Scanner  
Solution Provider in the World

## AWARDS & CERTIFICATES

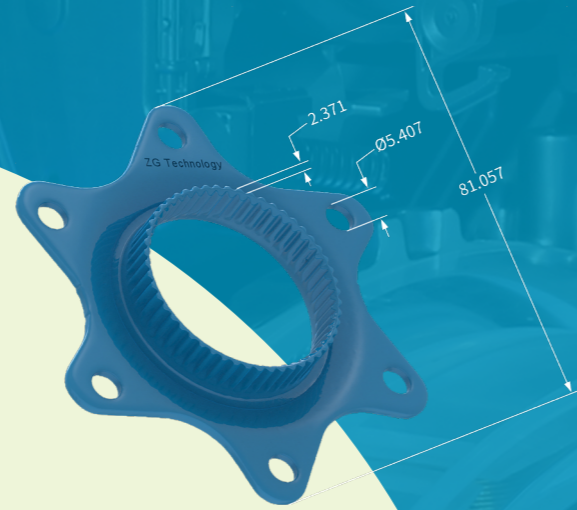




# RigelScan

## Smart Handheld Blue Laser 3D Scanner

The RigelScan series handheld blue laser 3D scanner, is a new metrology system launched by ZG Technology Co., Ltd. RigelScan can capture fine features of the parts with an accuracy up to 0.01mm, certified by National Institute of Metrology. RigelScan applies blue laser scanning technology for easy capturing of shiny surface. In the mean time, RigelScan can be equipped with wireless module, for more easy and flexible scanning experience of large parts. Thus, RigelScan provides the perfect 3D measurement solution for all industries.

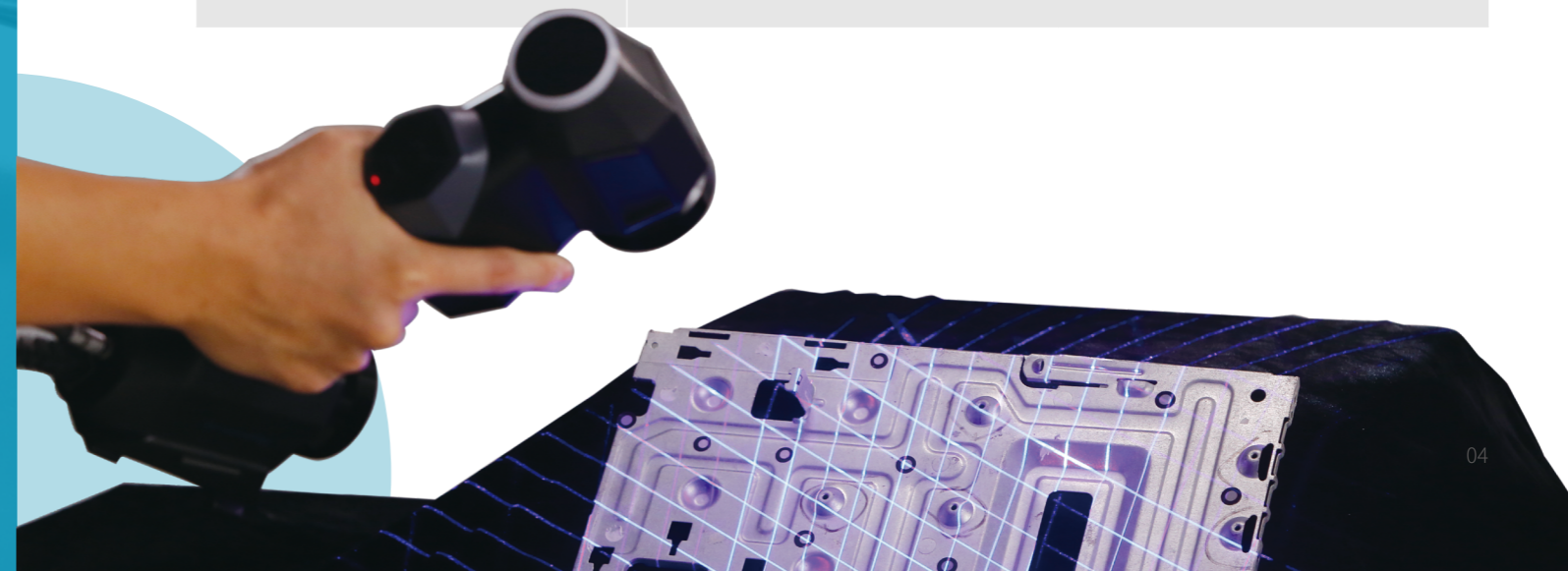


### FEATURES

- HIGH EFFICIENCY**  
 Up to 2,100,000 measurements/s
- LARGE-SCALE SCANNING**  
 Scanning area up to 600×550mm
- ULTRA HIGH ACCURACY**  
 Up to 0.01mm
- FINE DETAIL SCANNING**  
 Capture perfect 3D data of precision parts
- DYNAMIC REFERENCING TECHNOLOGY**  
 Freely move parts or scanner without effect accuracy
- GOOD ADAPTABILITY**  
 To easily scan shiny surface
- USER-FRIENDLY**  
 Easy operation, can master the operation within half hour
- WIRELESS CONNECTION**  
 Easy and flexible scanning of large parts

### TECHNICAL SPECIFICATIONS

Model	RigelScan Elite	RigelScan Plus
Measurement Rate-Standard Mode	1,350,000 measurements/s	2,100,000 measurements/s
Measurement Rate-Fine Mode	900,000 measurements/s	
Scanning Area	Up to 600×550mm	
Laser Source Class II (Eye Safe)	14 blue laser lines+extra single blue laser line+extra 5 blue laser lines	22 blue laser lines+extra single blue laser line+extra 5 blue laser lines
Resolution	Up to 0.02mm	
Accuracy-Standard Mode	Up to 0.02mm	
Accuracy-Fine Mode	Up to 0.01mm	
Volumetric Accuracy	0.015mm+0.035mm/m	
Volumetric Accuracy+Photoshot	0.015mm+0.015mm/m	
Stand-off Distance-Standard Mode	300mm	
Stand-off Distance-Fine Mode	150mm	
Depth of Field-Standard Mode	450mm	
Depth of Field-Fine Mode	150mm	
Depth of Field@Furthest range	550mm	
Weight	1kg	
Dimensions	300×150×70mm	
Connection Standard	USB 3.0	
Working Temperature	-10~40°C	
Working Humidity(Non-condensing)	10%~90%	
Export Format	.stl, .ply, .obj, .txt, .xyz, .asc. etc.customizable	
Compatible Softwares	3D Systems (Geomagic Solutions), InnovMetric Software (PolyWorks), Dassault Systems (CATIA V5 and SolidWorks), PTC (Pro/ ENGINEER), Autodesk (Inventor, Alias, 3ds Max, Maya, Softimage), Siemens (NX and Solid Edge) etc.	
Patents	CN106228603B、CN208174805U、CN111486801B、CN212539085U、CN106767895B、CN106204544B、CN304321958S、CN108038878B、CN211046994U、CN306620676U、CN214224013U、CN214924384U、CN215572695U	





# APPLICATION CASE



## AEROSPACE

rapid prototyping, quality control/inspection, (MRO) wear and tear analysis, aerodynamics, stress analysis, OEM and parts recycling, reverse engineering



## AUTOMOTIVE

reverse engineering, competitive product analysis, automotive repacking, interior customization, modeling and design, finite element analysis(FEA)



## CASTING PARTS

rough part quality control and inspection, machining processing design



## CULTURAL

cultural relic  
art  
sculpture



## HEAVY INDUSTRY

quality control, reverse engineering  
MRO and wear analysis, mechanical/tooling design and modification, OEM and parts recycling, tooling and mold modification



## MOLD

virtual assembly, reverse engineering, quality control, wear and tear analysis, custom repairs and modification



## CONSUMABLE

modeling and design  
inspection, reverse engineering, tooling design, VR&AR



## MEDICAL

orthosis/prosthesis design and manufacture,  
wound monitoring, biological specimen

More Applications: Education | Industrial Design | Museology | VR·AR

For more information please get from ZG official web: [www.3d-zg.com](http://www.3d-zg.com)



## ZG Technology Co., Ltd.

Website: [www.3d-zg.com](http://www.3d-zg.com)

Tell: +86 27 87741893

Hot line: 400-027-7181

Email: [overseas@3d-zg.com](mailto:overseas@3d-zg.com)

Add: Building No.1, Dingxin Industrial Park, No.18,  
Jiayuan Road, Hongshan District, Wuhan, China.

