



**CONTROL Y MEDICIÓN**  
LABORATORIO DE CALIBRACIÓN  
COMERCIALIZADORA

# RigelScan

Metrology-Grade Handheld Laser Scanning System

## SMART HANDHELD BLUE LASER 3D SCANNER

PORTABLE BLUE LASER 3D SCANNER SERIES

Perfect Metrology Solution



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## 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.

# A Professional 3D Scanner Solution Provider In the World

## AWARD & CERTIFICATION





## TECHNICAL TEAM

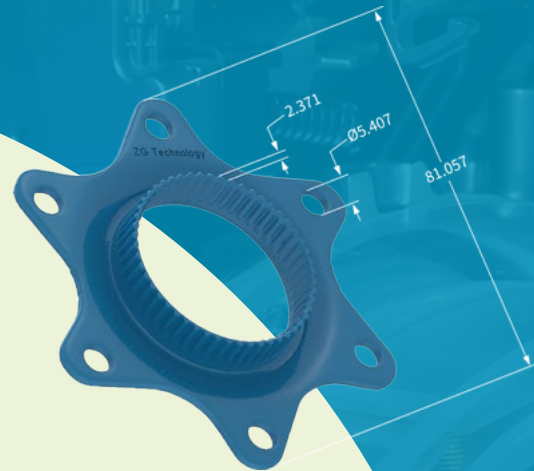
ZG technology R&D team has 7 doctors and 15 masters, all are the experts in photogrammetry and 3D measurements. ZG Technology is based on independent Intellectual Property Right, cutting edge technologies and achievements from Wuhan University, which gets more than 50 national patents and software copyrights, and has received more than 20 national and ministerial-level qualification awards.



# 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 0.02mm, 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 1,050,000 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	
SCAN MODE	Standard Mode	Fine Mode	Standard Mode	Fine Mode
MEASUREMENT RATE	650,000 measurements/s	450,000 measurements/s	1,050,000 measurements/s	450,000 measurements/s
SCANNING AREA	up to 600×550mm			
LIGHT SOURCE	14 blue laser lines + extra single blue laser line + extra 5 parallel blue laser lines		22 blue laser lines + extra single blue laser line + extra 5 parallel blue laser lines	
LASER CLASS	CLASS II (eye-safe)			
RESOLUTION	up to 0.02mm			
ACCURACY	up to 0.02mm	up to 0.01mm	up to 0.02mm	up to 0.01mm
VOLUMETRIC ACCURACY	0.02+0.035mm/m	—	0.02+0.035mm/m	—
VOLUMETRIC ACCURACY+PhotoShot	0.02+0.015mm/m	—	0.02+0.015mm/m	—
STAND-OFF DISTANCE	300mm	150mm	300mm	150mm
DEPTH OF FIELD	450mm	150mm	450mm	150mm
DEPTH OF FIELD @FURTHEST RANGE	550mm			
SUPER-REFERENCE (OPTIONAL)	support			
PORTABLE CMM (OPTIONAL)	support			
WEIGHT	0.83kg		1.0kg	
DIMENSIONS (LxWxH)	80×147×310mm		70×125×290mm	



# 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)



## 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

More Applications: [Education](#) | [Industrial Design](#) | [Museology](#) | [VR · AR](#)



## CASTING PARTS

rough part quality control and inspection, machining processing design



## CULTURAL

cultural relic  
art  
sculpture



## CONSUMABLE

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



## MEDICAL

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



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