

PORTABLE BLUE LASER 3D SCANNER SERIES

Perfect Metrology Solution



3D Scanner Manufacturer ZG Technology Co., Ltd.

About ZG

ZG Technology is a professional 3D scanner solution provider, who are experts 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-colour 3D scanner and photogrammetry system, which can meet a wide variety of 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 experts in photogrammetry and 3D measurements. ZG Technology is based on independent Intellectual Property Right, cutting edge technologies and achievements from Wuhan University, which has more than 50 national patents and software copyrights, and has received more than 20 national and ministerial-level qualification awards.

About 3D Scanning Solutions

3D Scanning Solutions is a service provider which is owned by M.J.M Design & Draughting Ltd. M.J.M was formed in 1997 as a Design consultancy providing support services to sectors ranging from white goods through to UK Defence & Formula 1.

For more information about the parent company please; visit www.mjmdesigns.co.uk

A Professional Global 3D Scanner Solution Provider

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 (Standard Mode), certified by National Institute of Metrology. RigelScan applies blue

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laser scanning technology to make the capture of shiny surfaces much easier. Rigelscan can be equipped with wireless capability making it ideal for scanning of large parts, making the Rigelscan ideal as a 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 effecting accuracy.

Good Adaptability

Making it easier to scan shiny surfaces.

User-Friendly

Making it easier to learn the scanning process.

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	support		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 customisation, 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

Additional Aplications: Education | Industrial Design | Museology | VR·AR

Application Case



Casting Parts

Rough part quality control and inspection, machining processing design



Cultural

Cultural relic, Art, Sculpture and Archaeology



Consumable

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



Medical

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

For more information please visit our website www.3dscanning-solutions.co.uk



We also provide 3D scanning & Reverse Engineering Services.

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